

ORIGINAL

NEW APPLICATION



0000027386

BEFORE THE ARIZONA CORPORATION COMMISSION  
RECEIVED

JEFF HATCH-MILLER, CHAIRMAN  
MARC SPITZER, COMMISSIONER  
WILLIAM A. MUNDELL, COMMISSIONER  
MIKE GLEASON, COMMISSIONER  
KRISTEN K. MAYES, COMMISSIONER

2005 AUG 24 P 4: 38

AZ CORP COMMISSION  
DOCUMENT CONTROL

W-02450A-05-0607

DOCKET NO. W-02450A-05-

**IN THE MATTER OF THE  
APPLICATION OF WATER  
UTILITY OF GREATER  
TONOPAH, INC., AN ARIZONA  
CORPORATION, FOR  
AUTHORITY TO ISSUE DEBT.**

**FINANCING APPLICATION – WIFA DEBT**

**(Expedited Processing Requested)**

Water Utility of Greater Tonopah, Inc. ("Applicant") pursuant to A.R.S. § 40-301, et seq., seeks Arizona Corporation Commission ("Commission") authorization to issue up to Five Hundred and Twenty Seven Thousand Dollars (\$527,000) in long-term indebtedness with the Water Infrastructure Financing Authority ("WIFA") on the terms and conditions and for the purposes set forth below. Because of impending compliance deadlines, Applicant respectfully requests the Commission process this Application as quickly as possible. This Application is supported by the following:

1. Applicant is an Arizona corporation authorized by the Commission to operate as a public service corporation providing water service to customers within its certificated area in Maricopa County, Arizona.

2. The water produced at some of Applicant's wells is not currently meeting the new arsenic standard that is scheduled to go into effect January 23, 2006.

1           3.     Applicant's management has been actively researching the available  
2 technology which would enable the Applicant to reduce the arsenic levels to a maximum  
3 level of 8ppb. This research included joining the Arsenic Removal Coalition (ARC) which  
4 was created by a \$50,000 grant from WIFA in 2004. The purpose of ARC is to aid small  
5 utilities in understanding what arsenic treatment technologies are available, the costs involved  
6 in each process, as well as sources for staff training and financing. ARC members have  
7 received 10+ presentations and cost estimates from different suppliers of arsenic treatment in  
8 the last 90 days. The Applicant selected a supplier in July 2005, based on the best technology  
9 with the most reasonable capital costs and operating and maintenance costs.  
10

11           4.     Applicant's Board of Directors has authorized the Applicant to enter into  
12 Five Hundred and Twenty Seven Thousand Dollars (\$527,000) in long-term indebtedness  
13 with WIFA. A copy of the authorization Resolution is attached as Exhibit A.  
14

15           5.     The financing will be used to make significant improvements to  
16 Applicant's system. The following is a brief description of the four improvement projects:  
17

18                 **Project 1.** The need for Project 1 is to install water treatment systems to  
19 remove arsenic to meet the January 23, 2006 ADEQ limit of 10 ppb. As of July 2005, arsenic  
20 treatment is needed for 2 large wells and 6 small wells in 8 **stand alone** water systems in the  
21 Applicant's CC&N. The 8 water systems that require treatment have between 1 to 80  
22 customers per system. The estimated amount to borrow for this project is \$128,800.  
23

24                 A summary of Project 1 and the estimated costs of materials and labor are set  
25 forth in Exhibit B, attached hereto. The attached information is a copy of the project data  
addendum that was submitted to WIFA for the Project Finance Application.

1           **Project 2.** The need for Project 2 is to drill and equip a new well to replace the  
2 one well serving the Garden City System. The current well's casing has developed a large  
3 hole at 473 ft which can not be repaired. The broken casing is causing TDS levels of 9,000.  
4 The temporary fix has been a Packer Balloon that covers the hole but needs inflating every 3  
5 days. A new well is needed for a permanent solution. The estimated amount of borrowing  
6 related to this project is \$101,200.  
7

8           A summary of Project 2 and the estimated costs of materials and labor are set  
9 forth in Exhibit C, attached hereto. The attached information is a copy of the project data  
10 addendum that was submitted to WIFA for the Project Finance Application.  
11

12           **Project 3.** The need for Project 3 is to install approximately 5,600 feet of  
13 pipeline that will connect the West Phoenix Estates III system well to the West Phoenix  
14 Estates VI system well site. This will allow a second source of water to serve the customers  
15 at West Phoenix Estates VI and help lower the current arsenic level by blending the two  
16 wells. West Phoenix Estates VI current arsenic level is <50 ppb after current treatment from  
17 the activated alumina treatment system. The estimated amount of borrowing related to this  
18 project is \$100,000.  
19

20           A summary of Project 3 and the estimated costs of materials and labor are set  
21 forth in Exhibit D, attached hereto. The attached information is a copy of the project data  
22 addendum that was submitted to WIFA for the Project Finance Application.  
23

24           **Project 4.** The need for Project 4 is to install approximately 9,850 feet of  
25 pipeline that will connect the Sunshine system to the Dixie system. This will allow a second  
source of water, storage facility, and increase fire flow to serve the customers in the Sunshine

1 systems. Additionally, this will eliminate the need for arsenic treatment at the Sunshine  
2 system by blending the water from the Dixie well that currently has an arsenic level of 7ppb.  
3 The estimated amount of borrowing related to this project is \$197,000.

4  
5 A summary of Project 4 and the estimated costs of materials and labor are set  
6 forth in Exhibit E, attached hereto. The attached information is a copy of the project data  
7 addendum that was submitted to WIFA for the Project Finance Application.

8 6. WIFA has listed Applicant on the Drinking Water Revolving Fund  
9 Funding Cycle 2005 Priority List. Although the exact proposed terms and conditions are not  
10 currently known to Applicant, the general terms and conditions applicable to WIFA loans will  
11 apply, including a lien on all of Applicants assets and revenues. It is anticipated the loan will  
12 be payable over a period of up to twenty (20) years, at an interest rate to be determined at  
13 funding, estimated at 70% of prime. Attached as Exhibit F is an estimated amortization  
14 schedule based on a loan amount of \$527,000, estimated annual interest rate of 4.55%, loan  
15 period 20 years with monthly principal or interest payments of \$3,348.30.

16  
17 7. Copies of Applicant's audited statement of assets, liabilities and equities  
18 for the year ending December 31, 2004 and the related statement of revenue and expenses  
19 with proforma adjustments showing the impacts of the funding are attached as Exhibit G.

20  
21 8. Copies of Applicant's unaudited statement of assets, liabilities and  
22 equities for 2005 as of July 31, 2005 and the related statement of revenue and expenses as  
23 prepared by management are attached as Exhibit H.

24  
25 9. The execution of the necessary documents to effectuate the loans in a  
total amount not to exceed Five Hundred and Twenty Seven Thousand Dollars (\$527,000) is

1 for lawful purposes which are within the corporate powers of Applicant, are compatible with  
2 the public interest, with sound financial practices, and with the proper performance of  
3 Applicant of service as a public service corporation and will not impair Applicant's ability to  
4 perform that service.  
5

6 10. Applicant proposes to give notice of this Application by publishing  
7 public notice, in the form attached hereto as Exhibit I, once in a newspaper of general  
8 circulation available to customers within Applicant's certificated area. The Applicant  
9 requests this form of notice be approved by the Commission.  
10

11 11. The public interest will be served if this Application is processed on an  
12 expedited basis.

13 12. All pleadings, data requests and other correspondence concerning this  
14 Application should be sent to:

15 William P. Sullivan, Esq.  
16 Curtis, Goodwin, Sullivan,  
17 Udall & Schwab, P.L.C.  
18 2712 North Seventh St.  
19 Phoenix, AZ 85006-1090  
20 Phone: (602) 393-1700  
21 Fax: (602) 393-1703  
22 Email: wsullivan@cgsuslaw.com

23 with copies to:


24 Mr. John Mihlik  
25 Water Utility of Greater Tonopah, Inc.  
3800 N. Central Ave., Ste. 770  
Phoenix, AZ 85012

1 WHEREFORE, Water Utility of Greater Tonopah, Inc. respectfully requests the  
2 Commission summarily find the Application to be administratively complete and enter its  
3 order:  
4

- 5 1. Granting Applicant's request to process the Application in an expedited  
6 manner;
- 7 2. Authorizing the form of Public Notice proposed above;
- 8 3. Authorizing Applicant to Execute promissory notes and related agreements and  
9 liens with WIFA in the cumulative amount not to exceed Five Hundred and  
10 Twenty Seven Thousand Dollars (\$527,000) on the terms and for the purposes  
11 set forth above; and
- 12 4. Granting such other relief as the Commission deems appropriate under the  
13 circumstance.  
14

15 DATED this 24<sup>th</sup> day of August, 2005.

17 CURTIS, GOODWIN, SULLIVAN,  
18 UDALL & SCHWAB, P.L.C.

19 By:   
20 William P. Sullivan  
21 Nancy A. Mangone  
22 2712 North 7th Street  
23 Phoenix, Arizona 85006-1090  
24 Attorneys for Water Utility of Greater  
25 Tonopah

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Docket Control  
Arizona Corporation Commission  
1200 West Washington  
Phoenix, Arizona 85007

Mary Walker

F:\1284-5-7-1 (WUGT 2005 WIFA Financing)\Pleadings\WUGT Finance Application.doc

## EXHIBIT A



**RESOLUTION OF THE BOARD OF DIRECTORS  
OF WATER UTILITY OF GREATER TONOPAH, INC.**

WHEREAS, Water Utility of Greater Tonopah, Inc. (WUGT) has identified improvements, upgrades and additions needed to enhance system reliability, that include arsenic treatment systems, a new well, a 5,600 foot water pipeline, and a 9,850 foot water pipeline, all as more fully set forth in the application prepared for submittal to the Water Infrastructure Financing Authority ("WIFA");

WHEREAS, the total costs for the foregoing projects are estimated at \$527,000.

WHEREAS, the Board of Directors deems it appropriate for WUGT to secure funding from WIFA and/or other sources, for the Project in an amount not to exceed \$527,000 for a term not to exceed twenty (20) years at the most favorable interest rate available, but not exceeding prime plus two percent (2%) per annum;

BE IT THEREFORE RESOLVED, that the Board of Directors of WUGT, do hereby authorize the President of WUGT, to execute the documentation necessary or appropriate to apply for and thereafter enter into a loan or loans with WIFA and/or other sources, for up to \$527,000 on the terms and for the purposes outlined above, subject to receiving Arizona Corporation Commission authorization to secure such indebtedness.

BE IT FURTHER RESOLVED, that the President be, and is hereby authorized, to take any and all action necessary or appropriate to obtain authorization from the Arizona Corporation Commission for WUGT to enter into said loans.

Date: 8/23, 2005

  
\_\_\_\_\_  
President

## EXHIBIT B

## Project Data Addendum

**1. Explain the reason or need for the Project – Attach additional pages, if necessary:**

The need for the project is to install water treatment systems to remove arsenic to meet the January 23, 2006 ADEQ limit of 10 ppb. As of July 2005, arsenic treatment is needed for 2 large wells and 6 small wells in **8 stand alone** water systems in Water Utility of Greater Tonopah (WUGT). The 8 water systems that require treatment have between 1 to 80 customers per system. The following list the wells and current arsenic levels.

<u>Well #</u>	<u>Arsenic mg/l</u>	<u># of Customers</u>
ADWR #55-803811 (B&D)	<u>.012 mg/l</u>	<u>58</u>
ADWR #55-802962 (Buckeye R.)	<u>.013 mg/l</u>	<u>12</u>
ADWR #55-639586 (Dixie)	<u>.007 mg/l</u>	<u>23</u>
ADWR #55-802145 (WPE #6)	<u>.050 mg/l</u>	<u>23</u>
ADWR #55-802144 (Tuftes)	<u>.026 mg/l</u>	<u>6</u>
ADWR #55-804131 (Garden City)	<u>.024 mg/l</u>	<u>14</u>
ADWR #55-802143 (Roseview)	<u>.024 mg/l</u>	<u>14</u>
ADWR #55-600209 (WPE #1)	<u>.018 mg/l</u>	<u>1</u>
ADWR #55-802141 (Sunshine)	<u>.011 mg/l</u>	<u>80</u>
<b>Total</b>		<b><u>231</u></b>

Please see the attached detailed schedule.

**2. Project Description -- Attach additional pages, if necessary:**

**A. Give a detailed description of the proposed project. – Include all components to be constructed**

WUGT intends to install point-of-use (POU) treatment devices as a means for compliance with drinking water maximum contaminant levels. ADEQ recognizes that POU is an attractive compliance option for small water systems and can result in significant cost savings. Federal law requires that the POU device be owned, controlled, and maintained by the water system or by a company under contract with the water system to ensure proper operation and maintenance and compliance with the MCL. WUGT has made arrangements with Watts Premier to install and service the POU devices. The POU device is model Zro-4 which is a zero waste reverse osmosis water treatment unit. Attached is detailed information about the Zro-4 that has been provided by Watts Premier. Installation of the Zro-4 is simple and can be completed with in 30-45 minutes with normal installation under the kitchen sink.

**B. Indicate what has been completed to date with the planning, design and/or construction for the project.**

WUGT has made arrangements with the supplier Watts Premier to provide installation for the POU devices and the number of units required. Watts Premier contact person is Mr. Shannon Murphy at 623-505-1514.

## Water Utility of Greater Tonopah – DW 038-2005

### Project Information:

Attach copies of available Project Engineering Information, such as:

- ☐ Plans and Specifications
- ☐ Project Engineering Reports
- ☐ Project Feasibility Studies
- ☒ Other Technical Data, if related to the Project
- ☐ Capital Improvement Plan

### 3. Estimated Project Schedule

*Please submit all approval documentation.*

Task	Date
Planning, Design & Specifications Submitted	N/A
Approval to Construct	N/A
Advertisement for Bids	N/A
Construction Commencement	11/2005
Construction Completion	12/2005
Initiate Operation	12/2005

### 4. Contractor Selection:

Have you selected a Contractor(s)? ☒ Yes ☐ No If "Yes," summarize the bidding process. If "No," on what date will the Contractors be selected?

Watts Premier is the supplier. No bidding process was used because Watts Premier is the only company that manufactures the patented Zero Waste Point-of-Use RO system – the Zro-4.

### 5. Licenses and Permits

List Local, State, and Federal Licenses and Permits required for the Proposed Project.

License/Permit Approvals	Date Expected	Date Approved
ADEQ Approval to use POU Water Treatment	8/2005	

# Water Utility of Greater Tonopah – DW 038-2005

## 6. Project Funding Sources & Uses

Uses by Budget Item	WIFA Funding	Local Funding	Other:	Total By Use
Planning				
Design & Engineering - Permits	26,400			26,400
Legal/Debt Authorization	5,000			5,000
Financial Advisor				
Land/System Acquisition				
Equipment/Materials	78,540			78,540
Construction/Installation/Improvement	13,860			13,860
Inspection & Construction Management				
Project Officer				
Administration		5,000		5,000
Staff Training				
Capitalized Interest				
Other - Contingency	5,000	5,000		10,000
<b>Total by Source</b>	<b>128,800</b>	<b>10,000</b>		
<b>Total for Project</b>			<b>138,800</b>	

## 7. Engineering Cost Estimate

Has an engineering cost estimate been performed on this Project? ☐ Yes ☒ No

If "Yes," include a copy of the cost estimate.

If "No," Provide an explanation or documentation on which the Project costs were based.

Project costs are based on the price sheet provided by Watts Premier.

## 8. Project Costs Expended to Date: \$

Will you seek reimbursement for Project Costs Expended to Date? ☐ Yes ☒ No

If "Yes," identify the costs and explain why WIFA should reimburse these costs.

## 9. Operation and Technical impact:

Will there be significant operating or technical impacts as the result of the proposed technology? ☐ Yes ☒ No Explain response below.

The annual service of the POU devises consists of replacing filters and the RO Membrane.

As of July 8, 2005

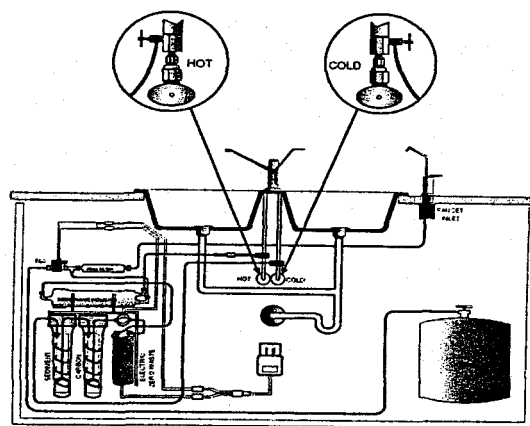
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# **WATTS**Premier

## **ZERO WASTE REVERSE OSMOSIS SYSTEM**

Patented & NSF Certified "Zero-Waste"  
Reverse Osmosis System delivers high quality  
RO water without the waste of normal RO  
systems.

- **WASTES NO WATER** – While standard RO units waste 4-12 gallons of water to make 1-gallon of pure water, the new Zero-Waste RO is 100% efficient, wasting no water.
- **SAVES THOUSANDS OF GALLONS PER YEAR** – Based on 1-2 gallon per usage for normal household, the Zero-Waste RO saves as much as 7,300 gallons per year.
- **HIGHER PRODUCTION** – Produces over 24 gpd to fill your tank quickly.
- **THIN FILM MEMBRANE** – State of the Art membrane material.
- **LONG REACH FAUCET** – Fill coffee pots and pitchers easily
- **3 GALLON STORAGE TANK** – Fits easily under sink and storage to meet your family's needs.
- **EASY TO INSTALL** – Only 2 connections with Watts "Adapta-valve".
- **INCLUDES INSTALLATION HARDWARE** – All hardware included for standard installation.
- **NSF CERTIFIED**
- **IAPMO CERTIFIED** – Meets all plumbing codes.
- **TOLL FREE CUSTOMER SERVICE SUPPORT** – Professionally trained staff can answer any questions and even help you install.



### **NSF Certified for:      % Reduction**

Arsenic (Pentavalent)	98.4%
Barium	97.9%
Cadmium	98.6%
Chromium (Hexavalent)	91.3%
Chromium (Trivalent)	94.1%
Copper	99.0%
Cysts	99.99%
<i>Cryptosporidium</i>	99.99%
<i>Entamoeba</i>	99.99%
Fluoride	93.9%
<i>Giardia</i>	99.99%
Lead	98.6%
Perchlorate	96.5%
Radium 226/228	80.0%
Selenium	92.0%
TDS	96.8%
Turbidity	97.5%
<i>Toxoplasma</i>	99.99%

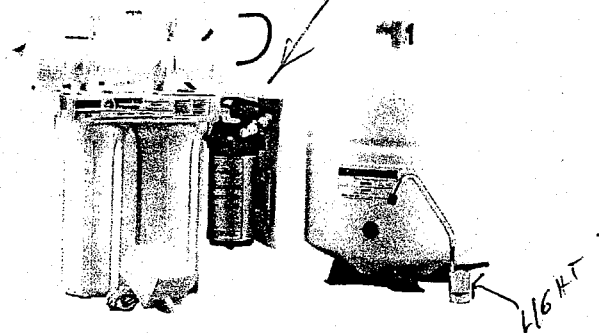
## Zero Waste Reverse Osmosis

Model Zro-4

### NSF Certified for:

Arsenic (300 ppb)  
Barium  
Cadmium  
Chromium  
Chromium  
Copper  
Cyst

Fluoride  
Lead  
Nitrite/Nitrate  
Perchlorate  
Radium 226/228  
Selenium  
TDS  
Turbidity



### EPA Requirements for POU Products:

NSF Certified for Arsenic reduction

Built in TDS Monitor to indicate to user when it is time to service

- ⚡ TDS Monitor ( for RO membrane Servicing )
- ⚡ 365 day timer ( for filter replacement )

### Zero Waste Benefits:

- ⚡ 100% efficient
- ⚡ Will not require booster pump if in low pressure house (under 40 psi)
- ⚡ No air gap faucet required

### Cost and O & M Overview

#### Capital cost

Zro-4                      \$310.00 ea

#### Replacement Filters and membrane

Pre and post filters	\$29.95 annually
RO Membrane	\$48.00 two to five years based upon incoming water parameters

#### Installation and service calls

Standard Installation	\$50.00 each
Annual Service	\$50.00 each

TOTAL COST  
\$1072/MO: ANNUALIZED OVER 10 YR PERIOD.



## Proven Technology

- ☛ Reverse osmosis is a proven technology which can efficiently reduce Arsenic V, and other water contaminants.
- ☛ Speciation tests in Arizona has concluded that it is nearly all Arsenic V, which is easily removed by RO technology
- ☛ Other POU compliance programs have witnessed removal of arsenic to non-detect levels (report limit of 2 ppb). Influent ranges of these water systems has been from 14 ppb up to 65 ppb

## RO System

The four stage system RO systems consist of:

- ☛ 5 micron particulate pre filter
- ☛ Specialty media blend filter, designed to extend the life of the filters to one year
- ☛ 25 or 50 GPD membrane
- ☛ Three gallon storage tank
- ☛ Final GAC polishing filter.

### Unit size and transportability: space requirements

The size of the Zero Waste unit is:

Height: 18"  
Width: 5 1/2"  
Length: 15 1/2"

The size of the three gallon RO tank is:

Height: 15"  
Diameter: 11"

*(HAVE TALLER THINNER TANK AVAILABLE).*

### Energy requirements

For the Zero Waste pump: 24 volts AC at 1 AMP

Note: Systems can be modified to have higher producing membranes or larger storage tanks based upon water needs.

- ☛ Installation of reverse osmosis system is simple and can be completed with in 30 - 45 minutes

## Additional Benefits of POU RO program

- ✱ No initial engineering requirement
- ✱ No need to build or expand current centralized treatment buildings
- ✱ No permitting and county approvals needed
- ✱ May not require additional operator certification levels (LEVEL 1)
- ✱ No need for harsh chemicals
- ✱ No hazardous waste created
- ✱ Handles seasonal water changes with no modifications
- ✱ No modification of current treatment plants needed
- ✱ Solves other secondary water contaminant issues
- ✱ Advance compliance to new regulations (e.g. perchlorate)

## Responses from POU Pilot project conducted with ADEQ

- ✱ Not at all difficult to arrange the installation or maintenance of the unit
- ✱ Install and maintenance check were clean and efficient
- ✱ System extremely easy to use
- ✱ System convenient to use
- ✱ RO system is an acceptable size
- ✱ Extremely satisfied with the quality of the water being produced
- ✱ Overall monthly cost is less to household as not purchasing bottled water as much / any more
- ✱ The participants of this program were extremely likely to have a similar RO unit installed in to their home if they were to move

## Why Watts Premier

- ✱ Experience in POU Compliance Field
  - Current POU programs in communities ranging from 20 to 200 connections
- ✱ Will work with you and community directly to launch successful program
- ✱ Assist with ADEQ where necessary
- ✱ Provide POU overview handout at time of installation for homeowners
- ✱ Price Competitive

Shannon Murphy  
Vice President, Municipal Water Programs  
Ph 623-505-1514  
Fx 623-931-0191  
e-mail: [murphysp@wattsind.com](mailto:murphysp@wattsind.com)  
Web: <http://www.wattspremier.com/SDWA>

## EXHIBIT C

## Project Data Addendum

**1. Explain the reason or need for the Project – *Attach additional pages, if necessary:***

The need for the project is to drill and equip a new well to replace the 1 well serving the Garden City System. The current well's casing has developed a large hole at 473ft which can not be repaired. The broken casing is causing TDS levels of 9,000. The temporary fix has been a Packer Balloon that covers the hole but needs inflating every 3 days. A new well is needed for a permanent solution.

**2. Project Description -- *Attach additional pages, if necessary:***

**A. Give a detailed description of the proposed project. – *Include all components to be constructed***

WUGT has selected ADT Drilling to drill the new well. The well will be drilled next to the current well at the same well site. The well then will be connected into the current treatment and water storage facilities at the Garden City well site.

**B. Indicate what has been completed to date with the planning, design and/or construction for the project.**

WUGT is waiting approval by WIFA on the Fundable Range for Grants for engineering costs up to \$11,250. WUGT has a minimum local match requirement of \$3,750.

## Water Utility of Greater Tonopah – DW 038-2005

### Project Information:

Attach copies of available Project Engineering Information, such as:

- ☐ Plans and Specifications
- ☐ Project Engineering Reports
- ☐ Project Feasibility Studies
- ☒ Other Technical Data, if related to the Project
- ☐ Capital Improvement Plan

### 3. Estimated Project Schedule

*Please submit all approval documentation.*

Task	Date
Planning, Design & Specifications Submitted	8/2005
Approval to Construct	8/2005
Advertisement for Bids	8/2005
Construction Commencement	9/2005
Construction Completion	9/2005
Initiate Operation	10/2005

### 4. Contractor Selection:

Have you selected a Contractor(s)? ☒ Yes ☐ No If "Yes," summarize the bidding process. If "No," on what date will the Contractors be selected?

ADT Drilling has been selected to drill the well. ADT Drilling has drilled other wells for WUGT in the area and is available as soon as possible.

### 5. Licenses and Permits

List Local, State, and Federal Licenses and Permits required for the Proposed Project.

License/Permit Approvals	Date Expected	Date Approved
Maricopa County Environmental Services Permit to Drill New Well	6/2005	7/2005
Maricopa County Environmental Services New Source Approval	9/2005	

6. Project Funding Sources & Uses

Uses by Budget Item	WIFA Funding	Local Funding	Other:	Total By Use
Planning				
Design & Engineering - Permits	11,250	3,750		15,000
Legal/Debt Authorization	5,000			5,000
Financial Advisor				
Land/System Acquisition				
Equipment/Materials	10,000			10,000
Construction/Installation/Improvement	70,000			70,000
Inspection & Construction Management				
Project Officer				
Administration		5,000		5,000
Staff Training				
Capitalized Interest				
Other - Contingency	4,950	5,050		10,000
<b>Total by Source</b>	<b>101,200</b>	<b>13,800</b>		
<b>Total for Project</b>			<b>115,000</b>	

7. Engineering Cost Estimate

Has an engineering cost estimate been performed on this Project? ☐ Yes ☒ No

*If "Yes," include a copy of the cost estimate.*

*If "No," Provide an explanation or documentation on which the Project costs were based.*

Project costs are based on the price sheet provided by ADT Drilling.

8. Project Costs Expended to Date: \$

Will you seek reimbursement for Project Costs Expended to Date? ☐ Yes ☒ No

*If "Yes," identify the costs and explain why WIFA should reimburse these costs.*

9. Operation and Technical impact:

Will there be significant operating or technical impacts as the result of the proposed technology? ☐ Yes ☒ No *Explain response below.*

The new well will require less maintenance service than the current damaged well.

**ADT Drilling, Inc.**  
**28150 N. Alma School Rd. #103**  
**PMB #440**  
**Scottsdale, AZ. 85262**  
**Ph. 480-471-1177**  
**Fax 480-471-1116**

## **Proposal**

**To: Water Utilities of Greater Tonopah, Inc. Location: Garden City System**  
**Address: 3800 N. Central Ave. Ste. 770 Date: 6-09-05**  
**City: Phoenix State: AZ Zip: 85012**  
**Phone: 623-386-4252 Fax: 623-386-6638**  
**Attn: Leonard Schejd**

**We hereby submit specifications and estimates for: 900' -8" x 6" steel cased test well**

-12" Surface seal		\$ 1,000.00
-8" Drilling and Advancing 8 5/8" steel casing	\$80.00 x 600'	\$48,000.00
-8" Casing shoe		\$ 250.00
-6" Drilling and Advancing 6 5/8" steel casing		
Price per foot including steel casing.	\$36.00 x 300'	\$10,800.00
-6" heavy duty casing shoe		\$ 165.00
-6 5/8" steel casing from 0 to 600'	\$12.00 x 600'	\$ 7,200.00
-Air perforate 300' 6" casing		\$ 4,800.00
-Air develop perforations		\$ 4,800.00

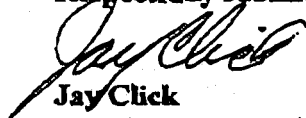
**Estimated total not including sales tax \$77,015.00**

ADT Drilling proposes to furnish materials and labor complete in accordance with the above specs for the sum of:

Sixty seven thousand eight hundred fifteen dollars and zero cents

Terms: 50% deposit before start with balance due upon completion.

Respectfully submitted,



Jay Click

President/owner ADT Drilling, Inc.

Terms: This proposal may be withdrawn by us if not signed and accepted within 30 days.

Signature: \_\_\_\_\_ Date of acceptance: \_\_\_\_\_



## EXHIBIT D

## Project Data Addendum

**1. Explain the reason or need for the Project – Attach additional pages, if necessary:**

The need for the project is to install a water line extension approximately 6,000 feet long from the West Phoenix Estates III system well to the West Phoenix Estates VI system well site. This will allow a second source of water to serve the customers at West Phoenix Estates VI and help lower the current arsenic level by blending the two wells. West Phoenix Estates VI current arsenic level is <50 ppb after current treatment from the activated alumina treatment system.

**2. Project Description -- Attach additional pages, if necessary:**

**A. Give a detailed description of the proposed project. – Include all components to be constructed**

Please see the attached engineering report and map produced by Fluid Solutions and funded by WIFA Grant TA DW-003-2004 (Arsenic/Fluoride MCL on WPE #6).

**B. Indicate what has been completed to date with the planning, design and/or construction for the project.**

The engineering plans for the pipeline have been completed by Fluid Solutions.

## Water Utility of Greater Tonopah – DW 038-2005

### Project Information:

Attach copies of available Project Engineering Information, such as:

- ☒ Plans and Specifications
- ☒ Project Engineering Reports
- ☒ Project Feasibility Studies
- ☐ Other Technical Data, if related to the Project
- ☐ Capital Improvement Plan

### 3. Estimated Project Schedule

*Please submit all approval documentation.*

Task	Date
Planning, Design & Specifications Submitted	8/2005
Approval to Construct	8/2005
Advertisement for Bids	8/2005
Construction Commencement	9/2005
Construction Completion	9/2005
Initiate Operation	10/2005

### 4. Contractor Selection:

Have you selected a Contractor(s)? ☒ Yes ☐ No If "Yes," summarize the bidding process. If "No," on what date will the Contractors be selected?

The Pipeline Company has been selected to install the pipeline. The Pipeline Company has installed other pipelines for WUGT in the area and is available as soon as possible.

### 5. Licenses and Permits

List Local, State, and Federal Licenses and Permits required for the Proposed Project.

License/Permit Approvals	Date Expected	Date Approved
Maricopa County Environmental Services Permit to Construct	8/2005	

# Water Utility of Greater Tonopah – DW 038-2005

## 6. Project Funding Sources & Uses

Uses by Budget Item	WIFA Funding	Local Funding	Other:	Total By Use
Planning				
Design & Engineering - Permits				
Legal/Debt Authorization	5,000			5,000
Financial Advisor				
Land/System Acquisition				
Equipment/Materials	10,000			10,000
Construction/Installation/Improvement	80,000			80,000
Inspection & Construction Management				
Project Officer				
Administration		5,000		5,000
Staff Training				
Capitalized Interest				
Other - Contingency	5,000	5,000		10,000
<b>Total by Source</b>	<b>100,000</b>	<b>10,000</b>		
<b>Total for Project</b>			<b>110,000</b>	

## 7. Engineering Cost Estimate

Has an engineering cost estimate been performed on this Project? ☐ Yes ☒ No

If "Yes," include a copy of the cost estimate.

If "No," Provide an explanation or documentation on which the Project costs were based.

Project costs are based on the price sheet provided by The Pipeline Company.

## 8. Project Costs Expended to Date: \$

Will you seek reimbursement for Project Costs Expended to Date? ☐ Yes ☒ No

If "Yes," identify the costs and explain why WIFA should reimburse these costs.

## 9. Operation and Technical impact:

Will there be significant operating or technical impacts as the result of the proposed technology? ☐ Yes ☒ No Explain response below.

The new pipeline will require very minimal maintenance.



# ***Fluid Solutions***

Water • Wastewater • Engineering • Environmental Services

November 26, 2003

Ms. Layla Hedayat  
Environmental Coordinator  
Water Infrastructure Finance Authority of Arizona  
1110 W. Washington, Suite 290  
Phoenix, AZ 85007

Re: Water Utility of Greater Tonopah, Inc.  
Arsenic/Fluoride MCL on WPE #6, TA DW-003-2004

Dear Ms. Hedayat:

Fluid Solutions is pleased to present this proposal in response to your request for proposal. We are pleased to continue helping Water Utility of Greater Tonopah solve their water quality problems in the Tonopah area. Our firm has project experience ranging from well treatment, pipeline design, well and water source evaluation, supply and distribution engineering, evaluation, and treatment to wastewater collection, treatment, disposal, and reuse. Our team of professionals includes engineers, geologists, hydrologists, water resource specialists, and support staff. The enclosed response provides further details on our firm.

Fluid Solutions has experience assisting small private water companies with compliance, expansion, and treatment. Our firm has assisted Greater Tonopah and Water Utility of Greater Buckeye with Water Infrastructure and Finance Authority (WIFA) projects to connect individual small water systems providing redundancy for source and storage. Other water system projects include treatment to remove nitrate for a school well in Tonopah; a scaling study for Clarkdale Water Company; well drilling, waterline extensions, and new storage facilities for Valencia Water Company; and well siting, development, distribution system modeling, and water master plans for other systems. The enclosed response provides further details for these projects.

Enclosed with this submittal are detailed resumes of our members Norm Fain and Kathy Hendricks. They detail specific projects and experience related to water system evaluation and design. Fluid Solutions greatly appreciates the opportunity to be of service. We are available to answer any questions that may arise in your consideration of this proposal.

If you have any questions or need additional information, please contact us.

Sincerely,  
***Fluid Solutions***

Kathryn L. Hendricks, P.E.  
Senior Engineer/Project Manager, Member

## Water Utility of Greater Tonopah, Inc.

Arsenic/Fluoride MCL on WPE #6, TA DW-003-2004

Fluid Solutions is pleased to present this proposal for your consideration. Our firm was started in 1998 by experienced water resource professionals to provide solutions to water resource challenges in Arizona. We have been helping private small water systems in Arizona with engineering, compliance, and improvements. The most recent clients have been Greater Tonopah, Greater Buckeye, Valencia, ABRA, North Scottsdale, Arizona Water Company, Shamrock, Arizona-American, Bermuda, and Bella Vista. We emphasize consistent client communication to ensure that your needs are first identified, and then met in a professional, cost-effective manner.

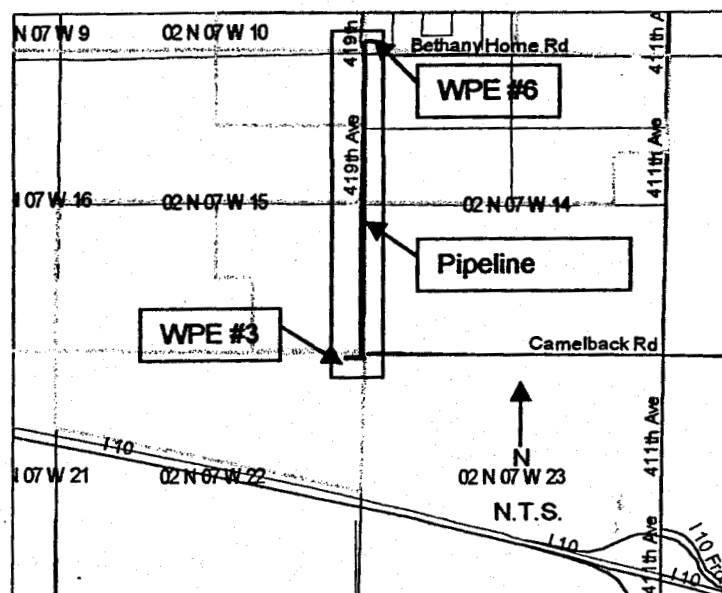
## Understanding

It is our understanding that Water Utilities of Greater Tonopah is seeking an engineering firm to prepare engineering plans for a line extension from the West Phoenix Estates III well to the treatment facilities at the West Phoenix Estates VI well site. In addition, the treatment facility at WPE #6 is manually operated. Automatic controls are required to reduce the time the operators spend checking the system. Funding will be provided by a grant from the Water Infrastructure Finance Authority of Arizona (WIFA) and matching funds from the water system.

## Waterline Extension

A pipeline connecting the well at West Phoenix #3 to the wellsite, treatment system, and booster pump at West Phoenix #6 will allow a second source of water to serve the customers of West Phoenix #6. The well sites are located in Sections 11 and 22 of Township 2 North, Range 7 West. This route is expected to run from the WPE #3 well site east to 419<sup>th</sup> Avenue and north along 419<sup>th</sup> Avenue to Bethany Home Road into the WPE #6 wellsite as shown on the vicinity map in Figure 1.

Figure 1 – Vicinity Map



The pipeline will require surveying of the route to locate utilities, property lines, rights-of-way, wash crossings, power poles, sign posts or other objects that will affect the location of the waterline. Figure 2 shows an aerial photograph of the area. Fluid Solutions will check the hydraulics of the well pump at WPE #3, determine the volume of water to be transferred to meet present and future demands, and calculate the pipeline size required. Isolation valves will be located every 500 feet along the route and air relief/vacuum relief valves will be added at the high and low points of the waterline. Extra protection will be provided at major wash or drainage channel crossings. Plan and profile construction drawings will be prepared to meet the requirements of the Maricopa County Environmental Services Department (MCESD) and obtain an Approval to Construct. MCESD is the delegated agency for review of plans in this area. Bedding and compaction requirements will be specified on the plans to meet MAG standards and requirements of the Maricopa County Department of Transportation (MCDOT). The right-of-way is owned by the County and permitting is required by MCDOT for installation of the waterline.

Figure 2 –  
Aerial Map of  
Pipeline Route



## ***Arsenic and Fluoride Issues***

Arsenic and Fluoride are naturally occurring contaminants found in rocks, soils, and water including groundwater. As with most communities in Arizona, Tonopah depends on groundwater as the sole source of supply for the community. Last year the WPE #6 well water table dropped below the pump suction during drawdown and the well pump was unable to pump water. The water company lowered the well pump from a depth of 362 to 462 feet below the ground surface. The bottom of the well is recorded at 570 feet. After lowering the well pump, the water quality was tested. The test results showed the Fluoride and Arsenic levels exceeded the Safe Drinking Water Standard Maximum Contaminant Levels (MCLs) for Fluoride and Arsenic. The samples results showed 11 mg/l Fluoride and 110 ug/l Arsenic. The MCL for Fluoride is 4.0 mg/l and the secondary standard is 2.1-1.4 mg/l, depending on the average temperature. This accounts for people drinking more water in warmer climates. Between 1.4 and 4.0 mg/l, the water company must provide public notice. The MCL is 50 ug/l for Arsenic. The Arsenic MCL has been lowered to 10 ug/l as of January 23, 2006.

Maximum Contaminant Levels are established based on anticipated health effects of a contaminant. Fluoride in drinking water can cause mottling of teeth above 2 mg/l and acute toxic effects at higher levels. Arsenic in drinking water can cause number of health effects. If the concentration of inorganic Arsenic is two times higher than the previous MCL of 0.05 mg/l, it can cause acute toxic effects that occur within a few hours or days. If the level is above 0.01 mg/l, it can cause cancer or other health problems according to the EPA after long-term exposure. The cancers associated with long-term ingestion of Arsenic include skin, bladder, lung, kidney, nasal, liver, and prostate cancers. Non-cancer effects from long-term exposure to Arsenic may include cardiovascular, pulmonary, immunological, neurological, and endocrine problems.

The water company has installed a treatment system using Activated Alumina (AA) to remove the Fluoride and Arsenic from the WPE #6 well. When water passes through the AA filters, the Fluoride and Arsenic adsorb to the AA particles and are removed from the water. The physical components of the treatment system include a day tank, treatment pump, piping, valves, an acid feed pump, two reinforced fiberglass tanks filled with AA, a caustic feed pump, and a treated water storage tank. Currently the operator manually measures the Fluoride level to check for breakthrough from the AA columns. The operator also measures pH of the raw and treated water since it is reduced to 5.5 to 6.0 for optimal treatment and then raised to 7 after treatment. When all available adsorption sites on the AA media are filled and breakthrough occurs, each filter is backwashed and regenerated with caustic to remove the Fluoride and Arsenic. Backwashing is followed by rinsing and acid washing to bring the pH of the media down. The regeneration and rinsing require operator attention and manual measurements of pH and Fluoride levels. This project will fund the installation of automatic controls for the treatment system. They will include pH and fluoride meters to monitor the treatment and determine when breakthrough is occurring. In the event of pH out of the desired range, or breakthrough of Fluoride, the treatment system will be shut off and a dial-up alarm will notify the operator.

WPE #3, two miles south of the treatment system, also has a well that exceeds the MCL for Fluoride, but has a lower concentration of about 5 mg/l. The Arsenic level is also



lower at this well. This well is located approximately 6000 feet from the treatment system at WPE #6. This project will prepare plans for a pipeline from WPE #3 to the treatment facility at WPE #6. This will allow the WPE #3 water to be treated and delivered to the customers of WPE #6. The lower levels of Fluoride and Arsenic will result in longer run times before regeneration of the media. This will reduce the operational time, chemicals, and costs required to operate the treatment system.

## Approach

The following tasks are recommended to prepare the plans for submittal to MCESD:

### Design

1. Obtain Information. Obtain copies of Right-of-Way records in 149<sup>th</sup> Avenue and for the area around WPE #3, Bluestake and utility records, floodplain maps, well pump records. The cost for this task is \$180.
2. Survey and Site Visit. Visit the site and survey the locations of existing utilities, property lines, and other conflicts with the waterline for a total cost of \$5100.
3. Preliminary Design and Plan. Determine improvements required to pump the well water from WPE #3 to WPE #6, determine the pipe size required, locate the line within the right-of-way, and prepare a brief memo report of the design criteria and planned improvements. Prepare one 11" x 17" plan of the waterline route for review. Meet with the water operator and owner to review the design report and preliminary plan. The cost for the preliminary design and project meeting is \$1100.
4. Detailed plans and specifications. Based on the review, finalize the design and report. Prepare plan and profile sheets and provide details for the water pipeline components. List specifications for materials and installation on the plan sheets. Plot 90 percent complete drawings for review. Estimate construction and material costs for the project. Meet with the water operator and owner to review the construction documents. The cost to prepare the plans and review them with the water company is \$3000.
5. Submittal to MCESD and MCDOT. Prepare final sealed plans and the Approval to Construct form and submit to MCESD for review along with the memo report. Submit a copy of the cost estimate and plans and specifications to MCDOT for approval. The cost for this task is \$420.
6. Follow-up with MCESD and MCDOT. Answer questions that arise during the review by MCESD and MCDOT and provide additional information if needed. Obtain the Approval to Construct from MCESD and permit approval letter from MCDOT. Total cost for this task is \$200.

These tasks can be completed for a total cost of \$10,000.

Additional services during construction of the water pipeline may be added through an additional proposal or by our hourly rates. The tasks suggested are as follows:

**Construction Services**

1. Shop Drawings. Review shop drawings provided by the contractor.
2. Contractor Questions. Answer questions and provide clarifications for the contractor.
3. Site Visits. Observe construction regularly to ensure it conforms to the plans and specifications.
4. Witness Testing. Upon completion of the construction, witness pressure testing of the waterline following MAG standards.
5. As-Built Survey. Survey any route changes that occurred during construction.
6. Record Drawings. Update the construction drawings with changes for the Engineer's record drawings.
7. Approval of Construction. Submit the Certificate of Completion and sealed record drawings to MCESD for approval.

## **Fluid Solutions' Qualifications**

### ***Description of Firm***

Fluid Solutions, a Member-owned, Phoenix-based consulting firm, was formed to assist their clients in utilizing their water resources wisely. Collectively, Fluid Solutions' Members have 60 years of experience in Arizona water-related issues and focuses its efforts on assessing water needs; securing water supplies; distributing and treating water; collecting and treating wastewater; and augmenting available water supplies through direct reuse or the replenishment of aquifers via artificial groundwater recharge.

Fluid Solutions provides a wide array of professional services in integrated water resource management. Our primary objective in providing these services is to fully understand our clients needs so that we may tailor a solution that best meets these needs in an economical and efficient manner. Fluid Solutions has the expertise to:

- Match water quality with appropriate end use requirements through the application of hydrology, hydrogeology, and engineering skills;
- Design and construct treatment works to produce water quality to meet end-use requirements;
- Design and construct delivery systems that bring water from its source to the user;
- Locate water resources and secure their lawful use;
- Create wastewater collection and treatment systems which can maximize the cost effective treatment and disposal of wastewater; and
- Design safe means of reusing and/or recharging treated wastewater to recover or preserve its status as a water resource.



Integrated water resource management is the approach utilized by Fluid Solutions. The goals of these efforts are to locate and ensure reliable, cost-effective supplies of water for existing communities and proposed development. Planning efforts include estimating water demands, preparing water budgets, conducting groundwater modeling, analyzing physical and legal availability of water supplies, and assessing groundwater quality. Fluid Solutions prepares hydrologic studies for use by our clients and regulatory agencies to demonstrate and develop water supplies. Fluid Solutions prepares water plans that incorporate short and long-term strategies; supply sources; water uses; legal, physical and institutional constraints; and infrastructure plans to create a clear path for its clients to follow and reduce uncertainty to the extent possible.

Water supply development and distribution systems deliver water resources to end-users. For groundwater resources, water supply development includes well siting, design, installation, and aquifer testing. Proper distribution system development and management requires matching anticipated water demands with available supplies on an as-needed basis. Where required, storage, distribution, and treatment works are planned, modeled, permitted, designed and developed to ensure that water demands are met. Fluid Solutions provides comprehensive services including: hydrologic, hydrogeologic, and engineering analysis, design and construction management services to support supply development and distribution management efforts. We have assisted water companies comply with local, state, and federal compliance issues in a timely manner.

Fluid Solutions keeps up-to-date on regulations which will effect our clients and focus our efforts on achieving long-term benefits for the client, community and the environment while being careful to develop facilities that can respond to uncertainties of the future without excessive over-design. Fluid Solutions' years of collective experience and proven expertise in hydrology, hydrogeology and water/wastewater system design, as well as our knowledge of the administrative aspects of water and wastewater, make us capable of providing the technical assistance to water systems required to meet the new arsenic standards.

### **Water System Services**

Fluid Solutions engineering services for water systems include source water treatment, distribution design, and existing system analysis. These design efforts focus on the development of systems that will provide a sufficient supply of safe drinking water for the community served. Included within these efforts are planning for development and phasing of new systems, expansion of existing systems, and rehabilitation of non-compliant systems.

Source water development is a key feature for water systems. Our engineering services offer development experience for wells, springs and surface waters. Well design focuses on the mechanical aspects of removing the water from the ground for storage and distribution. Key aspects include water quality and quantity. Spring sources include development of methods to collect the artesian supply and adding the infrastructure to store and distribute to the system. Surface water sources typically consist of intakes that will minimize collection of debris while maximizing the ability to divert the water under the varying flow conditions. Depending on the chemical and physical makeup of these waters, treatment may be required prior to delivery for public consumption.

Source water treatment design services consist of chemical, physical and mechanical systems to treat surface and ground waters to levels acceptable to the consuming public and regulatory agencies. Surface water treatment systems include conventional systems for removal of sediments, organics, viruses and pathogens. Other considerations are taste and odor, corrosion control and organic chemicals.

Groundwater treatment systems primarily serve to remove nutrients, aqueous salts, and metal ions, including arsenic. Blending of several sources may be used to dilute certain chemicals. Additional groundwater treatment considerations include a means to handle and dispose of the solids or waste stream by-product that is created. This component of the system is typically the most undesirable and therefore most difficult to develop an acceptable means of disposal.

Distribution of a water supply will include a pipe network, storage facilities, and in most cases pumping. The pipe network serves as the means to deliver the water supply to customers. To assist in this effort, our engineering services often will model the system to ensure that the pipe sizing and network loops work to complement delivery when demands vary throughout the system. Storage plays a major role in a distribution system to meet peak demands and provide system redundancies in an economical and cost effective manner. Properly sized storage tanks will allow peak events to be met without developing, designing, and constructing backup supply systems to meet rare or occasional occurrences. Storage, properly placed and sized, will save significant development dollars while allowing the water system to meet demands of the community. In some cases, mid-system booster stations will also assist in reducing the cost of development while still meeting peak events with sufficient pressures for fire suppression.

Fluid Solutions also provides services in the analysis and rehabilitation of existing systems. This is performed to allow an existing system to potentially meet the new demands or regulatory requirements imposed by growth, environmental or other health concerns. These efforts include evaluation to reduce existing operational costs or justify rate increases to the consuming public.

## **Environmental Services**

The primary focus of Fluid Solutions' Environmental Services is to assist our clients in complying with regulations and policy enforced by the USEPA and ADEQ. Federal involvement in projects has the potential to require compliance with the National Environmental Policy Act (NEPA). Federal involvement can be in the form of regulatory approvals or project funding. Fluid Solutions has experience in preparation of NEPA documents and has worked closely with Federal Agencies in their production and approval.

## **Project Team**

Fluid Solutions is prepared to work with Water Utility of Greater Tonopah to prepare the plans in a timely manner. Our project team will consist of the local operator, the water system owners, Norm Fain, our Principal Engineer, and Kathy Hendricks, our Project Engineer, along with our support staff. Please find the resumes of Fluid Solutions' key staff at the back of this proposal.

## **Work History**

### **Relevant Projects**

#### **WIFA Funded Projects:**

##### **Greater Buckeye Water Utility**

##### **West Maricopa Combine**

##### **Buckeye, Arizona**

Created a PIPE2000 model of two small water systems within one mile of each other. Each system has one well and one storage tank with booster pumps to serve their customers. Added a new waterline to the model to connect them. The connection will provide a backup source of water for each small system. The connecting pipe was sized based on the model. Construction plans and specifications were prepared.

##### **Greater Tonopah Water Utility**

##### **West Maricopa Combine**

##### **Tonopah, Arizona**

Created a PIPE2000 model of two small water systems within two miles of each other. Each system has one well and one storage tank with booster pumps to serve their customers. Added a new waterline to the model to connect them. The connection will provide a backup source of water for each small system. The connecting pipe was sized based on the model. Construction plans and specifications were prepared.

### **Water Treatment Projects**

##### **Ruth Fisher School Water Treatment Plant**

##### **Ionics Incorporated**

##### **Tonopah, Arizona**

Design of Electrodialysis Reversal well head treatment system to meet drinking water standards. Membrane system using electrochemical ion mobility to treat poor quality groundwater for use as drinking water at the school. Treated capacity of 17,000 gallons per day with provisions to expand to 34,000 gallons per day as required. This effort was performed in a design-build format to complete improvements ahead of a school expansion project.

##### **Water Utility of Greater Tonopah**

##### **Well Treatment to Reduce Arsenic and Fluoride**

##### **Tonopah, Arizona**

Design of activated alumina treatment system for supply well with high arsenic and fluoride. Treatment includes day tank feed system, acid addition to pH of 6.5 for optimal removal, caustic and chlorine addition to raise pH after treatment, and new storage tank with booster pumps. Installed pilot system to confirm design and bed life. Prepared design report, plans and specifications for Maricopa County review and approval. Special consideration in design of project has been given for high temperature source water and materials.

**Evaluation of Clarkdale Water Company**  
**Clarkdale Water Company**  
**Yavapai County, Arizona**

Review of 100-year old system to identify and resolve scaling in the main system and copper corrosion within homes. Scaling was widespread in old steel and cast-iron pipes constructed after the year 1900. Scaling was due normal buildup caused by salts and metals in the water supply affecting the pipe over time causing a reduction in the capacity of the delivery system. Copper pipe corrosion was identified in the newer homes built since 1984. This is concurrent with a major change in the manufacturing metallurgy of the copper pipe. Corrosion was due to natural carbon dioxide found in the groundwater supply resulting in pinhole leaks within homes. A solution was developed to solve both problems in a manner that was cost effective to an older, small private water utility. Tanks were converted from bottom feed to top feed with splash plates to facilitate aeration and stripping of the carbon dioxide. A blended phosphate was added to the distribution system at the storage tanks to slowly remove scale and provide a chemical liner on the base metals of the pipes. Problems persisted for the first year while the chemical treatment removed scale and lined pipes; however, copper failures ceased after that time and system capacity has been steadily increasing.

**Water System Design**

**West Maricopa Combine**  
**System Analysis and Designs for Improvements in Several Water Utilities Owned by West Maricopa Combine**

Ongoing work providing hydraulic modeling, master planning, infrastructure design, and construction services for improvements within water utilities. Efforts have included development of backup supplies between systems, determination of required supplies to meet new demands, and development of adequate storage and pumping facilities to meet demands and fire flows. In some areas, overall utility planning is progressing to determine a cohesive plan for future infrastructure as development occurs. Additional efforts are on-going to provide treatment and blending plans to meet the newly imposed Arsenic water quality requirements. Assistance in evaluation of a private water and wastewater utility for potential purchase is also being provided.

**Evaluation of Ajo Water Utility**  
**West Maricopa Combine**  
**Pima County, Arizona**

Provided technical assistance to a private water utility considering the purchase of the Ajo Water Utility. Efforts included evaluation of wells, storage, distribution, and arsenic treatment system. Evaluation considered required changes and improvements to make the system viable on its own merits. Evaluation is still in progress.

**Russell Ranch, Cottonwood Estates, and Savannah Developments**  
**Water Master Plans**  
**Glendale, Arizona**

Modeled distribution system using PIPE2000™ for each of the developments, evaluated well drilling locations for new source water in the area for Russell Ranch, and evaluated system improvements required to connect to the Arizona-American Water Company Aqua Fria District. System improvements included water storage capacity, booster pump capacity, distribution system improvements, fire flow and well sources. New well

site chosen based on existing wells; water quality and possible arsenic, chromium and nitrate in region.

### **New Development Hydraulic and Storage Analyses**

#### **Various Developments**

Modeled distribution systems for new developments in various locations in Maricopa County to size the pipes to meet all flow conditions using PIPE2000. Simulated existing system pressures based on hydrant tests. Determined volume of storage required and booster pump capacities.

#### **Blue Horizons Villages**

##### **Connection to Arizona Water Company**

##### **Buckeye, Arizona**

Modeled Phases 1 and 2 of the development and sized pipes and storage for the water system. Prepared plans and specifications for the connection of the development to the existing Arizona Water Company distribution system.

### **Assured Water Supply and Hydraulic Analysis**

#### **Water Utility of Northern Scottsdale**

##### **Rio Verde, Arizona**

Assisted in the establishment of a water company to provide service to subdivisions in Rio Verde, Arizona. Process included conducting a hydrologic study of the area to determine if sufficient water was available to serve the subdivisions for 100 years, as required by the Assured Water Supply program that is administered by the Arizona Department of Water Resources (ADWR). Once water quantity was determined, water rights were acquired for the establishment of the water service area right pursuant to ADWR's rules. A total of three wells were sited, constructed and tested for both aquifer conditions and water quality. Also assisted in acquiring Maricopa County Source Water Approval for the wells. Modeled the distribution system using PIPE2000 to size pipes and determine booster pumps required.





**Norm Fain, P.E.**  
**Principal Engineer, Member**

**Experience:**

*Eighteen years experience providing civil and sanitary engineering services for public and privately owned projects. Experience in design, rehabilitation, and construction services for water and wastewater systems.*

**Summary of Project Experience:**

- Water experience includes analysis and design of source water supply systems, treatment, and distribution.
  - Source water supply systems include surface water intakes, spring collection systems, and wells.
  - Treatment facilities include new and rehabilitative work for surface and ground waters to meet primary and secondary drinking water standards in addition to remediation facilities to meet groundwater standards, including electro dialysis reversal and activated aluminum systems ranging from 5,000 gpd to 150 mgd.
  - Distribution systems include 2 to 96-inch modeling and piping designed for 30 to 1,200 psig heads, pump stations, and storage facilities up to 10 million gallons.
  - Odor and corrosion control and remediation facilities have been completed for both water and wastewater systems. Facilities have included chemical and biochemical preventative solutions and mechanical, natural, and chemical remedial solutions to odorous and corrosive gasses in both water and wastewater supplies.
  - Chemical liners to protect water pipelines from gasses and constituents natural to the source water.
- Wastewater experience includes analysis and design of wastewater collection, treatment, and disposal facilities.
  - Design of collection systems
  - Design of new treatment facilities and rehabilitative efforts for treatment from 10,000 gpd to 21 mgd.
  - Effluent disposal projects have included development of guidelines, master planning, and design of recharge and disposal infrastructure.

**Education**

B.S., Civil Engineering Technology, Northern Arizona University, 1983

**Registrations**

Registered Professional Engineer, Arizona (25969)

Licensed General Engineering Contractor, Arizona (137525)

**Professional Affiliations:**

Arizona Water & Pollution Control Association

Water Environment Federation

American Water Works Association

Response to Request for Proposal  
Why Utility Treatment and Line Replacement Project



**Kathy Hendricks, P.E.**  
**Senior Engineer/Project Manager**

**Experience:**

*Twelve years of experience providing civil engineering, sanitary engineering and environmental services for public and privately owned projects. Experience in design of water and wastewater treatment systems, rehabilitation systems, regulations, permitting, and construction services.*

**Summary of Project Experience:**

- Water experience includes analysis, design, and modifications to source water supply systems, treatment, and distribution.
  - Well source water systems.
  - Design of arsenic and fluoride removal by activated alumina for drinking water supply.
  - Design of new and modifications to existing treatment systems, value engineering, and construction services.
  - Master planning, modeling, and design of 2-inch to 48-inch diameter distribution systems, pump stations, and storage tanks. Construction services and corrosion control study.
- Wastewater experience includes analysis and design of wastewater collection, treatment, and disposal facilities.
  - Modeling, rehabilitation, master planning, and design of 6-inch to 30-inch diameter collection systems including gravity, low pressure, and force mains with pump stations and plant closure plans.
  - Design of mechanical treatment plants, including oxidation ditches, aeration basins, clarifiers, aerobic digesters, disinfection and sludge handling systems.
  - Sizing of effluent piping and design of individual and small on-site wastewater systems.
  - Design plans for effluent recharge basins.
- Odor Control facilities designed for mechanical and chemical remedial solutions to odorous and corrosive gasses in wastewater.

B.A., Physics, DePauw University, Greencastle, Indiana, 1989.

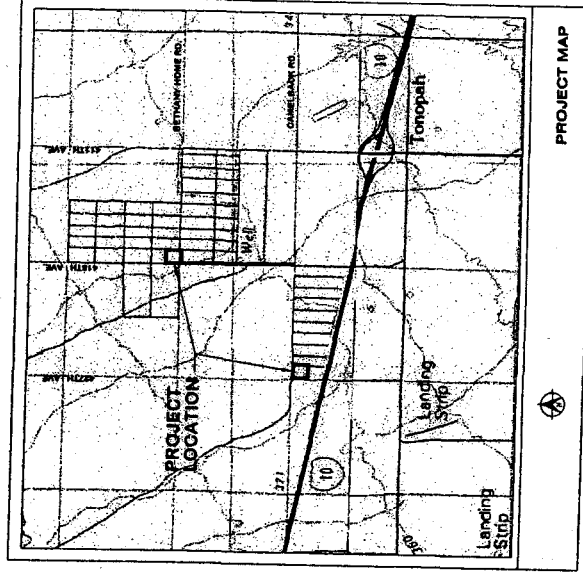
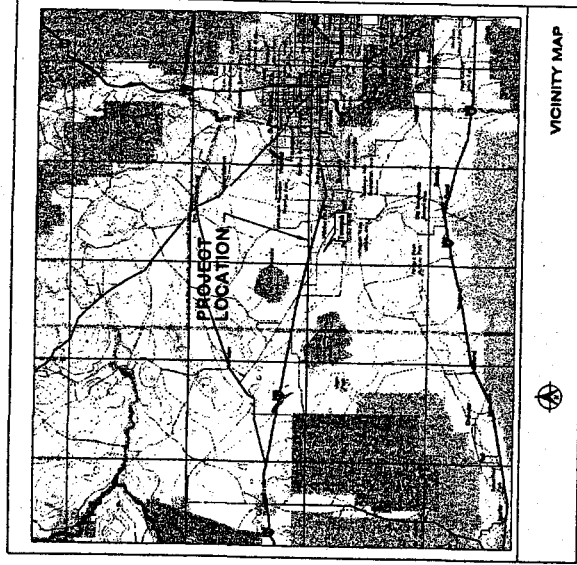
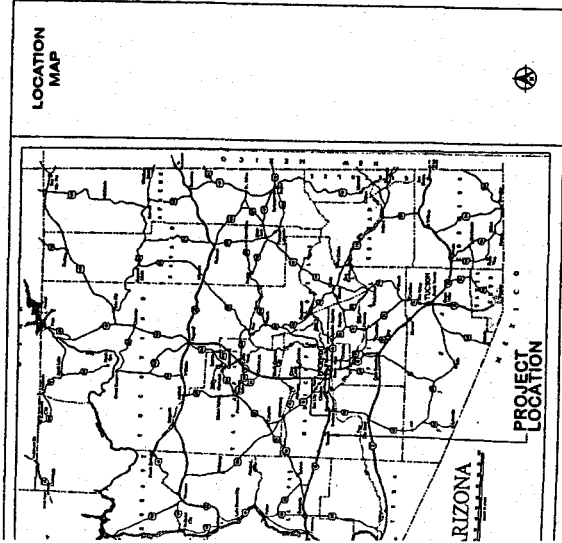
M.S., Civil Engineering, University of Arizona, 1991.

Registered Professional Engineer, Arizona

**Professional Affiliations:**

Arizona Water & Pollution Control Association  
American Water Works Association  
Water Environment Federation  
American Society of Civil Engineering  
Toastmasters International

# WATER UTILITIES OF GREATER TONOPAH WEST PHOENIX ESTATES WATERLINE AND FLUORIDE/ARSENIC REMOVAL AUTOMATION



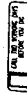
## APPROVALS

WATER UTILITY OF GREATER TONOPAH DATE

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT

APPROVAL: *[Signature]* DATE *6/1/04*

TECHNICAL REVIEW



WATER UTILITIES OF GREATER TONOPAH  
 WEST PHOENIX ESTATES WATERLINE  
 AND  
 FLUORIDE/ARSENIC REMOVAL AUTOMATION

WATER UTILITIES OF GREATER TONOPAH WEST PHOENIX ESTATES WATERLINE AND FLUORIDE/ARSENIC REMOVAL AUTOMATION	
COVER	
Fluid Solutions Water, Wastewater, Environmental & Environmental 1111 E. 11TH AVENUE, SUITE 100, PHOENIX, AZ 85016	
JOB NO.:	DATE:
DESIGNED:	APPROVED:
CHECKED:	DATE:
BY:	DATE:



1. LOCATION AND DEPTH OF EXISTING UTILITIES ARE PROVIDED BASED ON BLUE STAKES DATA AND UTILITY INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION TO CONFIRM LOCATION AND DEPTH.

2. STATIONING IS PROVIDED ALONG SECTION LINE AS SHOWN ON THE PLANS.

3. BACKFILL WITHIN ROADWAY OR 2' OR LESS FROM THE ROADWAY SHALL BE 3/4" AGG COMPACTED TO 85% STD. PROCTOR.

4. QUANTITIES, THIS IS SHEET MAJOR COMPONENTS AND LENGTHS PROVIDED IN HORIZONTAL PLANE.

A.	4" C800 PVC	1054 LF
B.	4" CL 360 DIP	3 EA
C.	4" CL 360 DIP	407 LF
D.	AIR RELIEF VALVE AND APPURTENANCES	1 EA
E.	CONCRETE ENCASMENT	107 LF

QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES. PAYMENT SHALL BE BASED ON DOCUMENTED QUANTITIES INSTALLED.



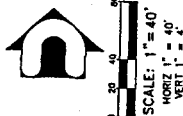
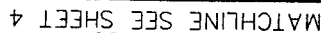
WATER UTILITIES OF GREATER TONOPAH  
WEST PHOENIX ESTATES WATERLINE  
AND FLUORIDE/ARSENIC REMOVAL AUTOMATION

STA. 0+00 TO STA. 10+00



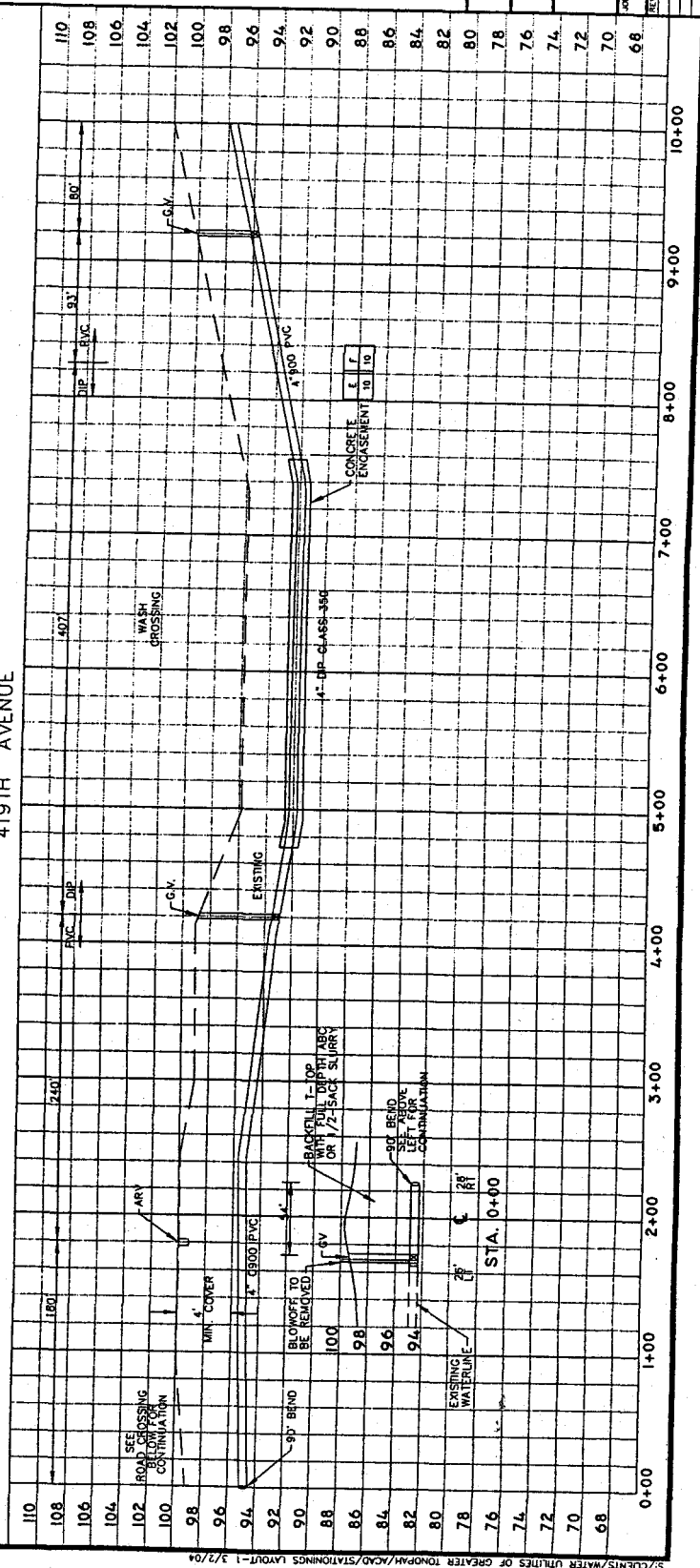
Water, Wastewater, Engineering & Environmental Services  
1121 EAST MISSOURI AVENUE • SUITE 100 • PHOENIX, ARIZONA 85014

JOB NO.	DESIGNED: NWF	DRAWN: PH	APPROVED: NWF	DATE: 1/04
REV.	SHEET			
	3			
	OF			
	11			



ABC BACKFILL REQUIRED IN TRENCH  
FROM STA. 0+00 TO STA. 10+00  
(LESS AREA REQUIRING  $\frac{1}{2}$  -SACK  
SLURRY) TO MEET MCDOT REQUIREMENTS.  
SUBJECT TO FIELD VERIFICATION.

419TH AVENUE



# CONSTRUCTION NOTES

1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE PROVIDED BASED ON BLUE PRINTS DATA AND UTILITY INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXISTING UTILITIES PRIOR TO EXCAVATION TO CONFIRM LOCATION AND DEPTH.
2. STATIONING IS PROVIDED ALONG SECTION LINE AS SHOWN ON THE PLANS.
3. BACKFILL WITHIN ROADWAY OR SHALL BE LESS FROM THE EDGE SHALL BE COMPACTED TO 85% STD. PROCTOR.
4. QUANTITIES: THIS IS SHEET MAJOR COMPONENTS LENGTHS PROVIDED IN HORIZONTAL PLANE.
  - A. 4" C900 PVC 1008 LF
  - B. 4" GATE VALVE 2 EA.
  - C. 4" 22.5' BENDS 2 EA.
  - D. AIR RELIEF VALVE 1 EA.
  - E. AND APPURTENANCES

QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES. PAYMENT SHALL BE BASED ON DOCUMENTED QUANTITIES INSTALLED.



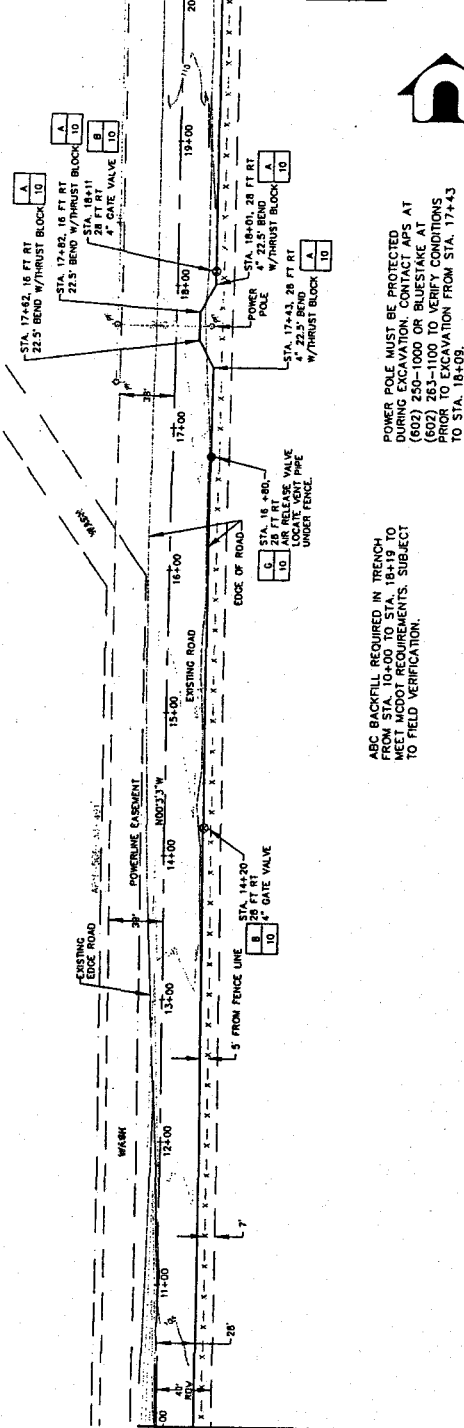
WATER UTILITIES OF GREATER TONGAH  
WEST PHOENIX ESTATES WATERLINE  
AND SOURCE/ASBESTOS REMOVAL AUTOMATION

STA. 10+00 TO STA. 20+00

**Fluid Solutions**  
WATER UTILITIES & ENVIRONMENTAL SERVICES  
1111 EAST PLEASANT STREET SUITE 100 PHOENIX, ARIZONA 85006

REV	DESCRIPTION	DATE	APPROVED	DRAWN	CHK	DATE	1/04
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

STA. 20+00  
MATCHLINE SEE SHEET 5



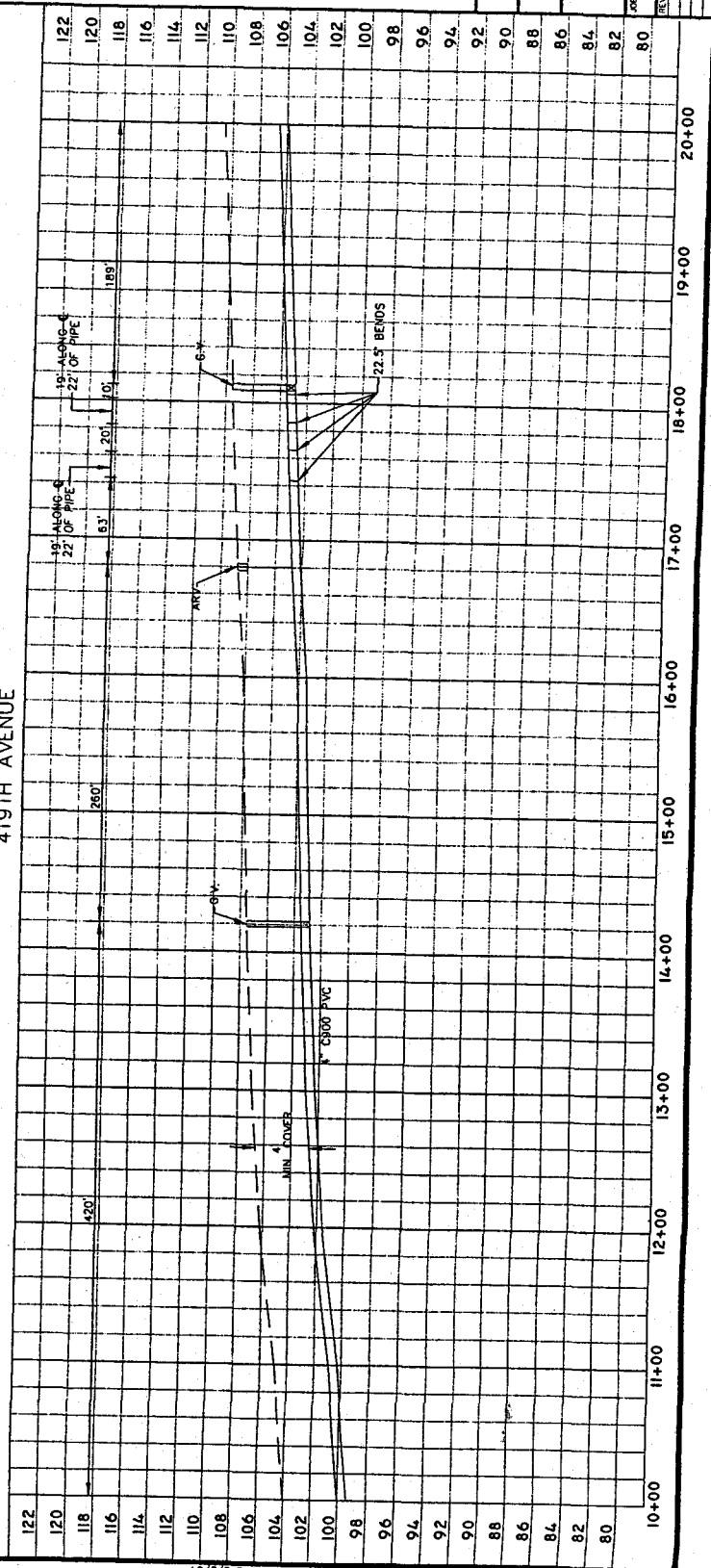
POWER POLE MUST BE PROTECTED DURING EXCAVATION. CONTACT APS AT (602) 250-1000 OR BLUESTAKE (602) 283-1100 TO VERIFY CONDITIONS PRIOR TO EXCAVATION FROM STA. 17+43 TO STA. 18+09.

ABC BACKFILL REQUIRED IN TRENCH FROM STA. 10+00 TO STA. 17+43 TO MEET MCDOT REQUIREMENTS. SUBJECT TO FIELD VERIFICATION.



SCALE: 1" = 40'  
HORIZ 1" = 40'  
VERT 1" = 4'

419TH AVENUE



1. EXISTING LOCATIONS AND DEPTHS OF EXISTING UTILITIES ARE PROVIDED BASED ON BLUE PRINTS, FIELD DATA AND UTILITY RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTHS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND CONFIRM LOCATION AND DEPTH.

2. STATIONING IS PROVIDED ALONG SECTION LINES SHOWN ON THE PLANS.

3. BACKFILL WITHIN ROADWAY OR 2' OR LESS FROM THE CURB SHALL BE ABC COMPACTED TO 85% STD. PROCTOR.

QUANTITIES, THIS IS SHEET MAJOR COMPONENTS LENGTHS PROVIDED IN HORIZONTAL PLANE.

A.	4" C900 PVC	1005 LF
B.	4" 22.5 VALVE	2 EA
C.	4" 22.5 BEND	2 EA

QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES. PAYMENT SHALL BE BASED ON DOCUMENTED QUANTITIES INSTALLED.



WATER UTILITIES OF GREATER TONOPAH  
WEST PHOENIX ESTATES WATERLINE  
AND FLUORIDE/ARSENIC REMOVAL AUTOMATION

STA. 20+00 TO STA. 30+00



## Fluid Solutions

Water, Wastewater, Engineering & Environmental Services  
21 EAST MISSOURI AVENUE • SUITE 100 • PHOENIX, ARIZONA 85014

JOB NO.	DESIGNED: NWF	DRAWN: G	APPROVED:	DATE:
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1/04	NWF	HH	NWF
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10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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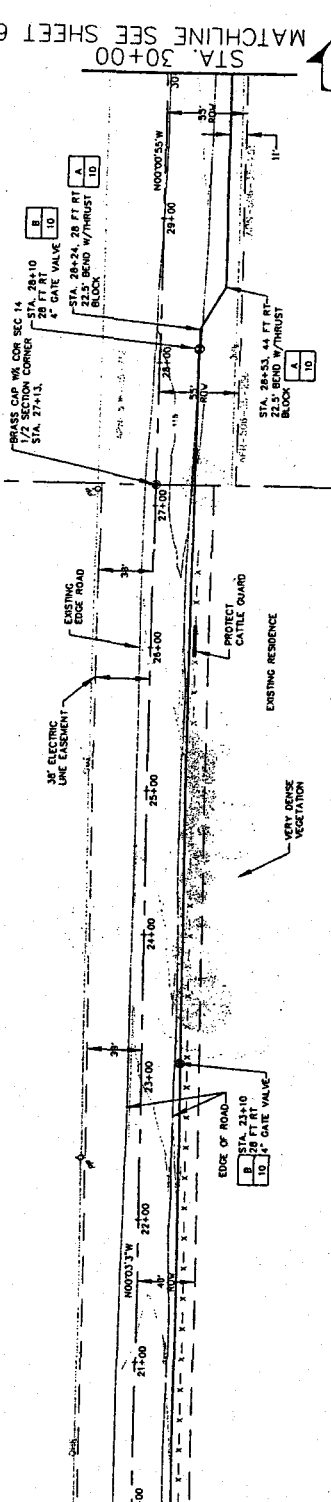
[illegible]

1000

100

STA. 20+00  
MATCHLINE SEE SHEET 4

SIA. 30+00  
MATCHLINE SEE SHEET 6

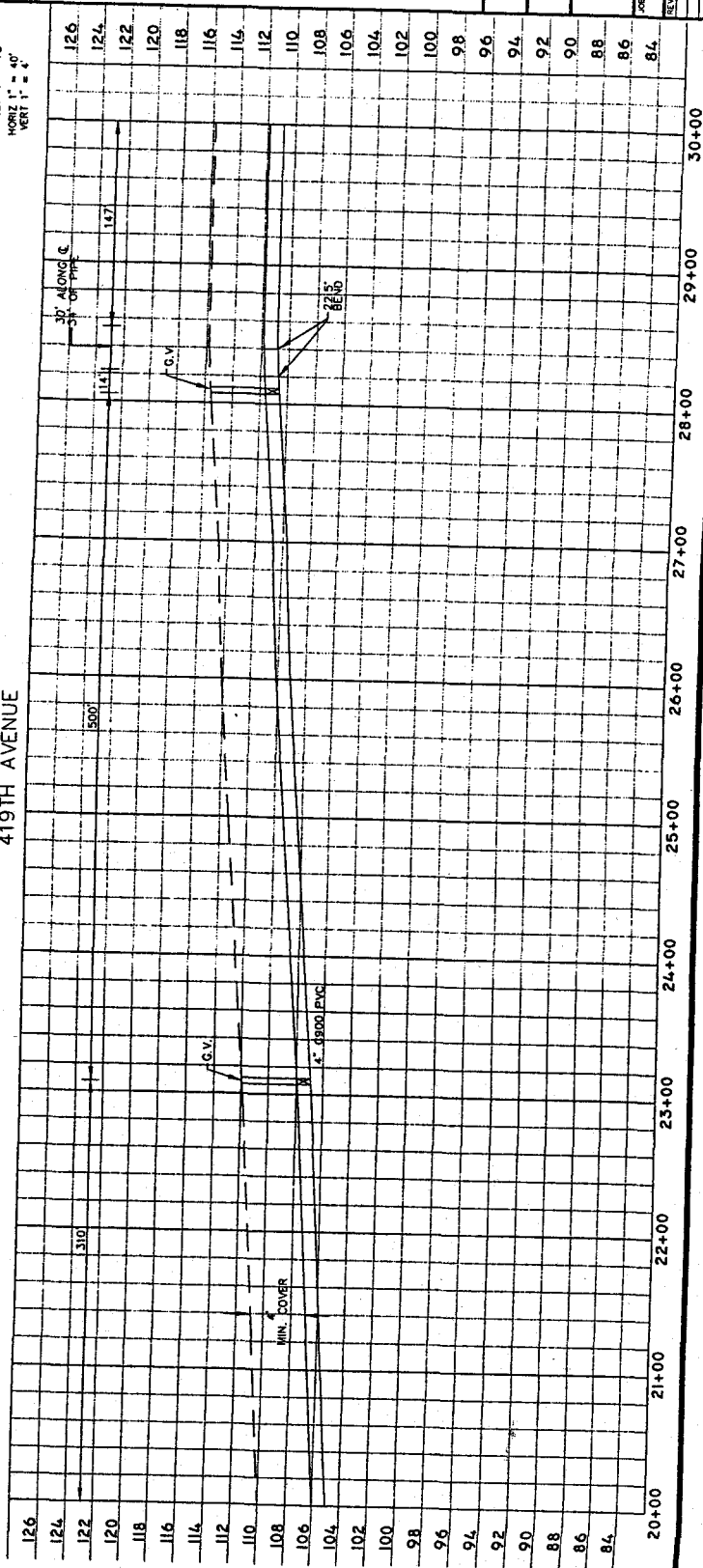


ABC BACKFILL REQUIRED IN TRENCH FROM STA. 27+13 TO STA. 28+30 TO MEET MCDOT REQUIREMENTS. SUBJECT TO FIELD VERIFICATION.

419TH AVENUE



SCALE: 1" = 40'  
HORIZ 1" = 40'  
VERT 1" = 4'



# CONSTRUCTION NOTES

1. LOCATION AND DEPTHS OF EXISTING UTILITIES SHALL BE PROVIDED BASED ON BLUE STAKES DATA AND UTILITY INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO POHOLES EXISTING UTILITIES PRIOR TO EXCAVATION TO DETERMINE LOCATION AND DEPTH.
2. STATIONING IS PROVIDED ALONG SECTION LINE AS SHOWN ON THE PLANS.
3. BACKFILL WITHIN ROADWAY OR 2' OR LESS FROM THE EDGE SHALL BE ABC COMPACTED TO 85% STD. PROCTOR.
4. QUANTITIES: THIS IS SHEET MAJOR COMPONENTS, UTILITIES PROVIDED IN HORIZONTAL PLANE.
  - A. 4" C900 PVC 1000 LF
  - B. 4" GATE VALVE 2 EA.
  - C. AIR RELIEF VALVE 1 EA. AND APPURTENANCES

QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES. PAYMENT SHALL BE BASED ON DOCUMENTED QUANTITIES INSTALLED.



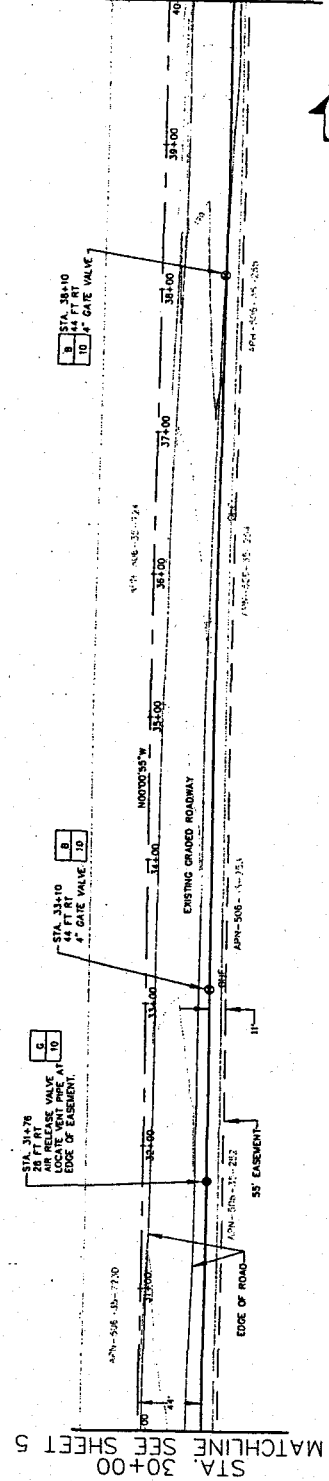
WATER UTILITIES OF GREATER TOWN OF WEST PHOENIA ESTATES WATERLINE AND FLOOD/SEWAGE REMOVAL AUTOMATION

STA. 30+00 TO STA. 40+00



JOB NO.	DESIGNED	DRAWN	APPROVED	DATE	1/24
92	MMF	PH	MMF		
SHEET	6	OF	11		

STA. 30+00 MATCHLINE SEE SHEET 5

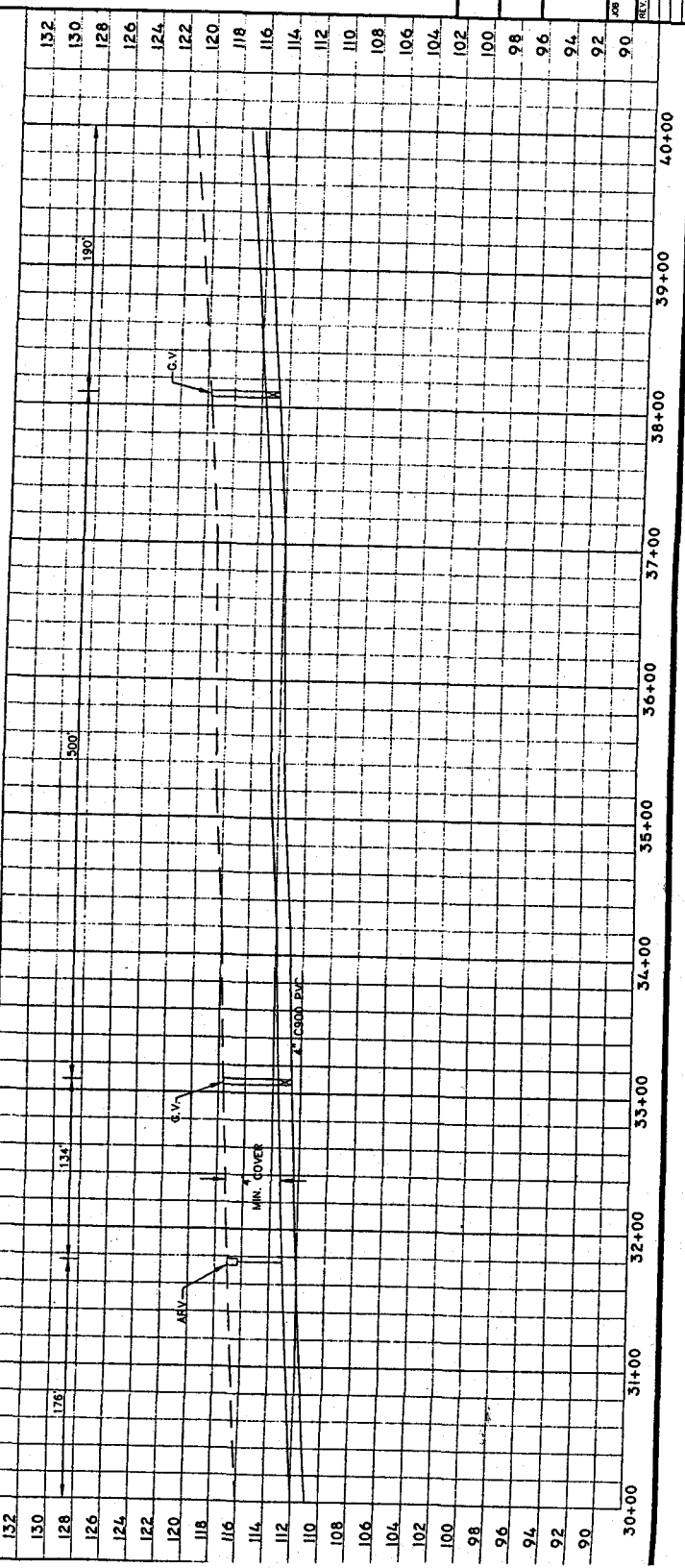


ABC BACKFILL REQUIRED IN TRENCH FROM STA. 37+00 TO STA. 40+00 TO MEET ALL GOOD REQUIREMENTS. SUBJECT TO FIELD VERIFICATION.



SCALE: 1" = 40'  
HORIZ 1" = 40'  
VERT 1" = 4'

419TH AVENUE

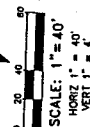
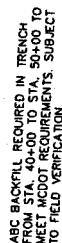




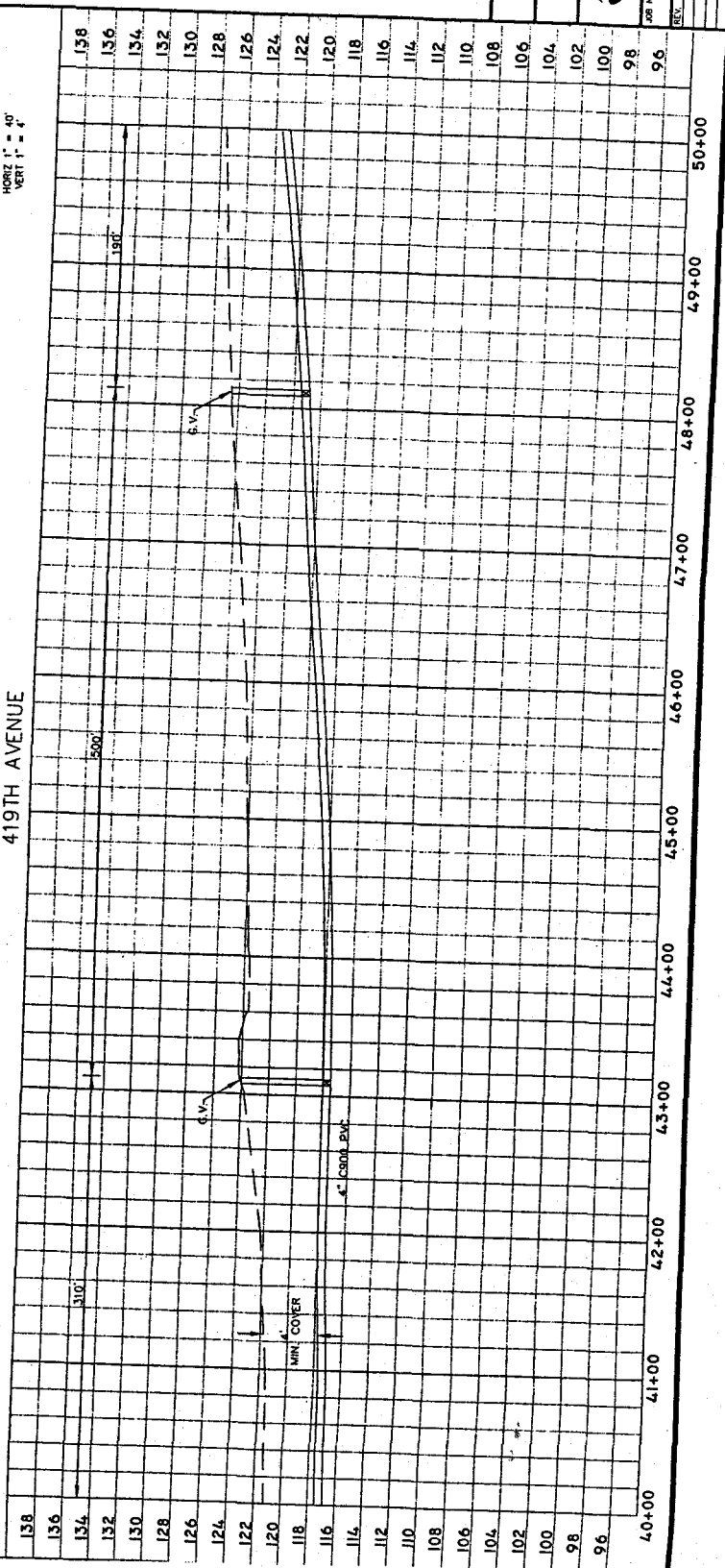
1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE PROVIDED BASED ON BLUE STAKES DATA AND UTILITY INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION TO CONFORM TO LOCATION AND DEPTH.
2. STATIONING IS PROVIDED ALONG SECTION LINE AS SHOWN ON THE PLANS.
3. CURB ROLL WITHIN ROADWAY OR 2' FROM THE EDGE SHALL BE FROM THE TOP OF CURB TO THE TOP OF COMPACTED TO 65% STD. PROCTOR.
4. QUANTITIES: THIS IS SHEET MAJOR COMPONENTS LENGTHS PROVIDED IN HORIZONTAL PLANE.
 

A.	4" C900 PVC	1000 LF
B.	4" GATE VALVE	2 EA.

QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES. PAYMENT SHALL BE BASED ON DOCUMENTED QUANTITIES INSTALLED.



419TH AVENUE



001-192

WATER UTILITIES OF GREATER TONOPAH  
WEST PHOENIX ESTATES WATERLINE  
FLUORIDE/ARSENIC REMOVAL AUTOMATION

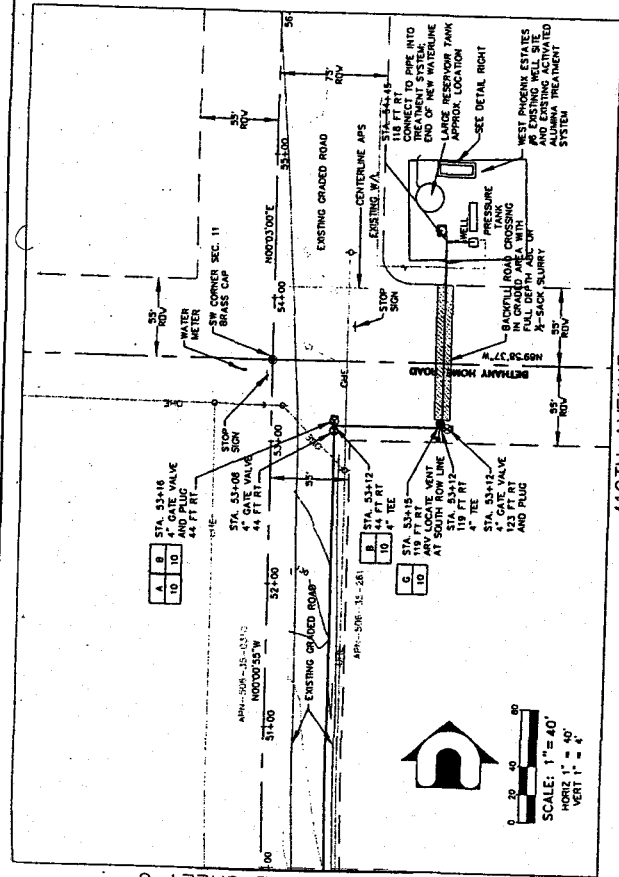
STA. 40+00 TO STA. 50+00



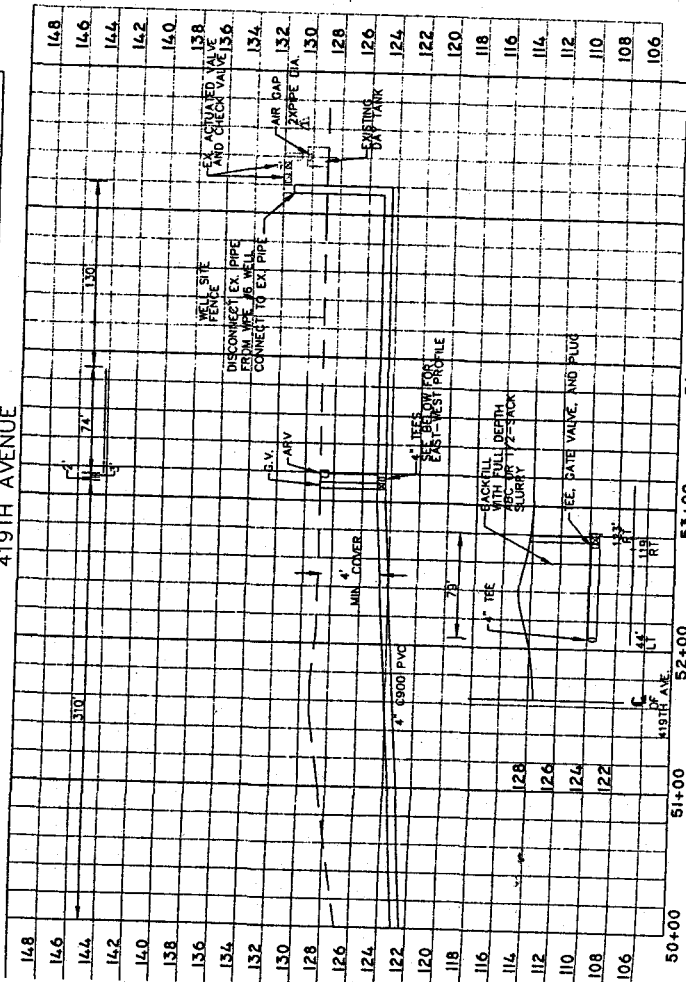
**CIVIL**  
Water, Wastewater, Engineering & Environmental Services  
1121 EAST HIXSON AVE.  
CHICAGO, IL 60640

JOB NO.	DESIGNED: NWF	DRAWN: FH	APPROVED: NWF	DATE: 1/04
REV.				
	SHEET 7 OF 11			

STA. 50+00  
MATCHLINE SEE SHEET 6



419TH AVENUE

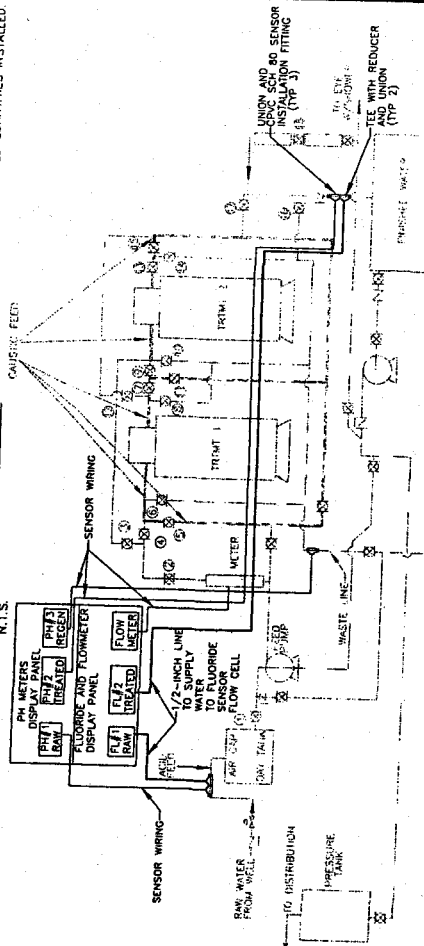


# CONSTRUCTION NOTES

1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE SHOWN ON BLUE STAKES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM EXISTING UTILITIES PRIOR TO EXCAVATION TO CONFIRM LOCATION AND DEPTH.
2. STATIONING IS PROVIDED FOR THE EXISTING LINE AS SHOWN ON THE PLANS. BACKFILL WITH ROADWAY OR 2" OR LESS FROM THE EDGE SHALL BE ABC COMPACTED TO 85% STD PROCTOR.
3. QUANTITIES: THIS IS SHEET LENGTHS PROVIDED IN HORIZONTAL PLANE.
4. MAJOR COMPONENTS:
  - A. 4" C900 PVC 593 LF
  - B. 4" GATE VALVE 2 EA
  - C. 4" TEE 1 EA
  - D. AIR RELEASE VALVE 1 EA
  - E. AIR APPURTENANCES 2 EA
  - F. IN-LINE PH METERS 3 EA
  - G. IN-LINE FLUORIDE 2 EA
  - H. IN-LINE FLOWMETER 1 EA
  - I. AUTO DIALER ALARM 1 EA

QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES. PAYMENT SHALL BE BASED ON DOCUMENTED QUANTITIES INSTALLED.

## EXISTING TREATMENT PLANT LAYOUT



- RAW WATER
- CHEMICAL FEED
- BACK WASH
- WASTE WATER
- TREATED WATER
- CHLORINATION
- VALVE NUMBER

## EXISTING TREATMENT PLANT SCHEMATIC

NOTES:  
INSTALL INSERTION PH SENSORS AND SDC STREAM MONITORING DEVICES FOLLOWING MANUFACTURER'S RECOMMENDATIONS. THE MANUFACTURER'S INSTRUCTIONS FOR CONTROLS AND PANEL SETTINGS SHOULD BE PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE AUTO DIALER AND TREATMENT PLANT SHUTOFF CONTROLS FOR TREATED WATER FLOWING FROM THE TREATMENT PLANT TO THE 419TH AVENUE WATER LINE. PH ABOVE OR BELOW A RANGE OF VALUES.

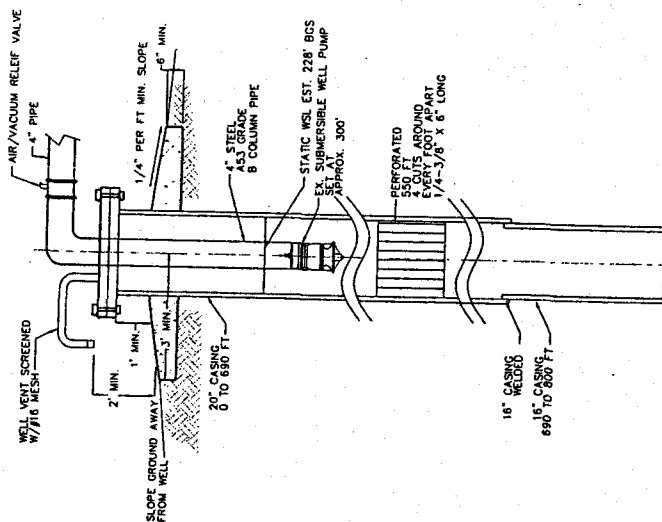


WATER UTILITIES OF GREATER TOMBAGO  
WEST PHOENIX ESTATES WATERLINE  
AND FLUORIDE/ARSENIC REMOVAL AUTOMATION  
STA. 50+00 TO WEST PHOENIX ESTATES  
#6 WELL SITE/TREATMENT

DESIGNED	DATE
DRAWN	DATE
APPROVED	DATE
CHECKED	DATE
SCALE	COUNTY COMMENTS
SHEET	OF

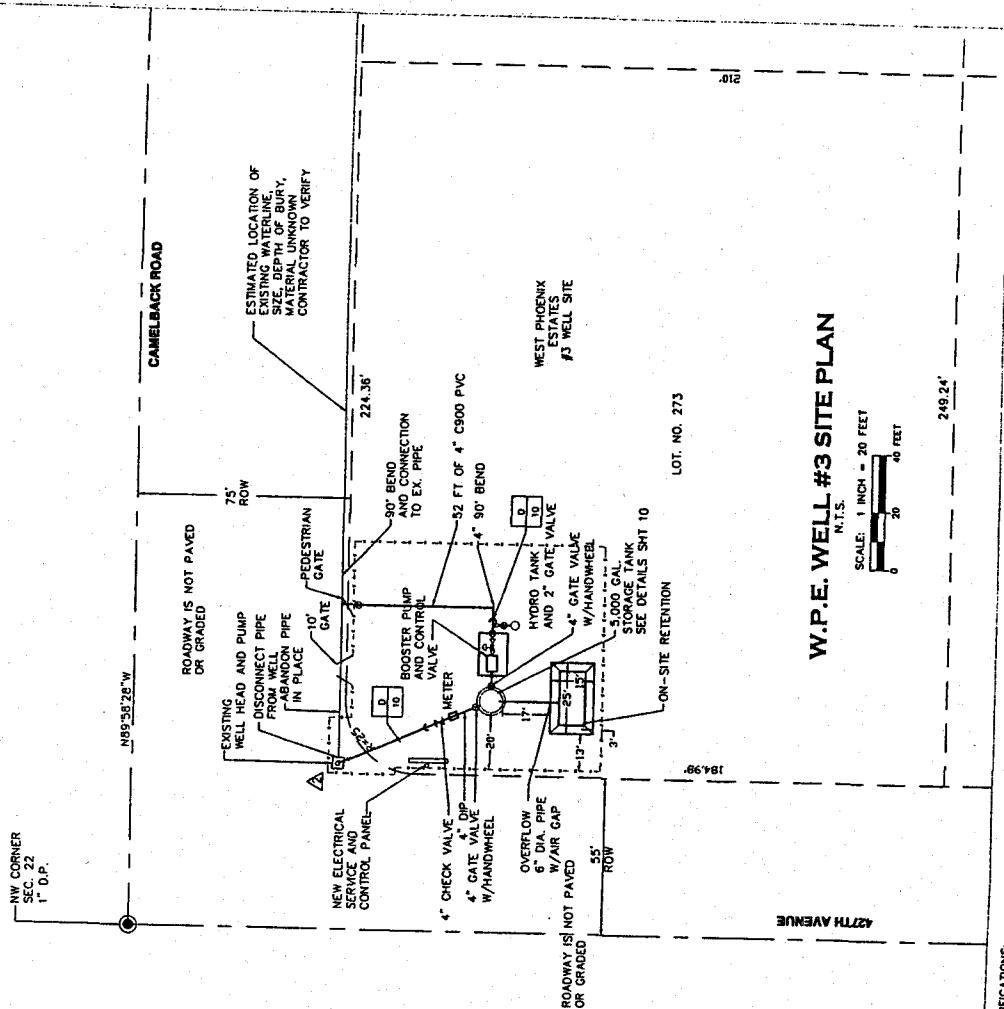
1. LOCATION AND DEPTH OF EXISTING UTILITIES PROVIDED BASED ON STAKES DATA AND UTILITY INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO POthOLE UTILITIES PRIOR TO EXCAVATION TO AVOID DAMAGE TO LOCATION AND DEPTH.	2. QUANTITIES FOR SHEET MAJOR COMPONENTS LENGTHS PROVIDED IN HORIZONTAL PLANE.	119 LF
	A. 4" CS90 P/C	5 EA.
	B. 4" 90° VALVE	1 EA.
	C. 4" 90° VALVE	1 EA.
	D. BOOSTER PUMP	345 LF
	E. CHAINLINK FENCE	1 EA.
	F. 4" X 1" REDUCER	2 EA.
	G. 4" X 1" REDUCER	1 EA.
	H. 4" GSTD 90° W/	20 LF
	I. FLANGED END	1 EA.
	J. HYDROFANK	1 EA.
	K. THREADED ENDS	6 LF
	L. CHECK VALVE	1 EA.
	M. AIR VACUUM RELIEF	1 EA.
	F. 2" W/ 90° REDUCER	1 EA.

QUANTITIES ARE PROVIDED FOR BIDDING PURPOSES. PAYMENT SHALL BE BASED ON DOCUMENTED QUANTITIES FOR WORK COMPLETED.



NOTE: WELL DETAILED INFO FROM  
DRILLER'S LOG 1959.

**EXISTING WELL DETAIL**  
N.T.S. 



**W.P.E. WELL #3 SITE PLAN**

N.T.S.

SCALE: 1 INCH = 20 FEET

**SPECIFICATIONS:**

**BOOSTER PUMP, SUPPLY A COULDS CENTRIFUGAL PUMP 1X1-1**  
**3 MODEL 36/27/3742 OR EQUAL, WITH THE FOLLOWING**  
**CHARACTERISTICS:**

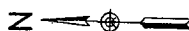
FLOW (GPM)	HEAD (FT)
0	118 SHUTOFF HEAD
10	+15
20	111
30	102
40	92
50	80
60	68

**MAXIMUM 2 HP. TEFC, 60 HZ, 3 PHASE, BRONZE FITTED,**  
**5-3/8" DIA. IMPELLER.**

INSTALL 4X1 REDUCER BEFORE PUMP AND 1-1/2X2 INCREASER BEFORE PUMP CONTROL VALVE. 2X4 INCREASER AFTER IT.  
PUMP CONTROL VALVE: INSTALL BERNAD 740-Q-03 PUMP CONTROL VALVE OR EQUAL, 2-INCH DIA, CLASS 125, WITH SOLENOID VALVE, ACTS AS CHECK VALVE.

INSTALL, INITIAL, ROTAMETER FOR CAPACITY OF 80 GPM,  
PRESSURE UP TO 150 PSI, TEMPERATURE UP TO 130°F.  
INSTALL, INITIAL, ROTAMETER FOR CAPACITY OF 80 GPM,  
PRESSURE UP TO 150 PSI, TEMPERATURE UP TO 130°F.  
HYDRAULIC TANK, 270-GALLON, WITH 10% CORROSION  
PROOF, 2" OUTLET/W/LET.  
AIR/W/ACQUIN VALVE. PROVIDE VALVE WITH LARGE ORIFICE THAT  
WILL ALLOW LIQUID ENTER THE VALVE AND SMALL ORIFICE  
THAT WILL ALLOW AIR TO PASS THROUGH POCKETS OF AIR TO ESCAPE.  
SMALL ORIFICE 3/16"-INCH DIA. ORIFICE  
RUBBER HOSE OR GST PIPE POSITIONED TO DISCHARGE AIR TO  
OPERATING HEAD UP TO 210 FT.

RUBBER HOSE OR GST PIPE POSITIONED TO DISCHARGE AIR TO GROUND. OPERATING HEAD 0 TO 210 FT.



76J-1100

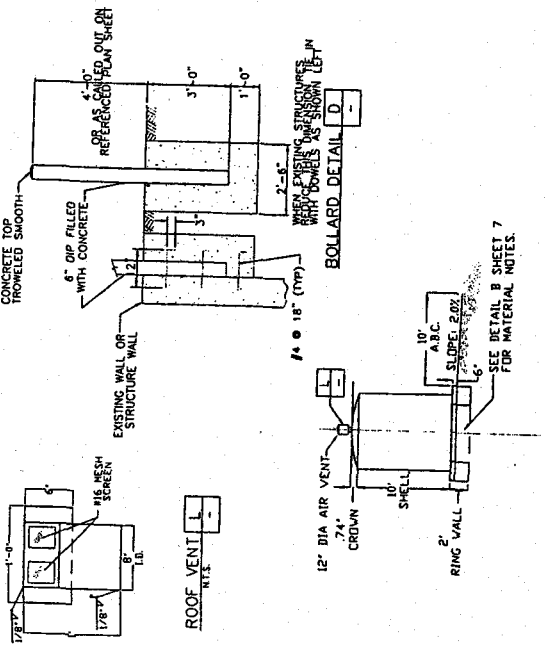
WATER UTILITIES OF GREATER TONOPAH  
WEST PHOENIX ESTATES WATERLINE  
AND FLUORIDE/ARSENIC REMOVAL AUTOMATION

WEST PHOENIX ESTATES #3 WELLSITE



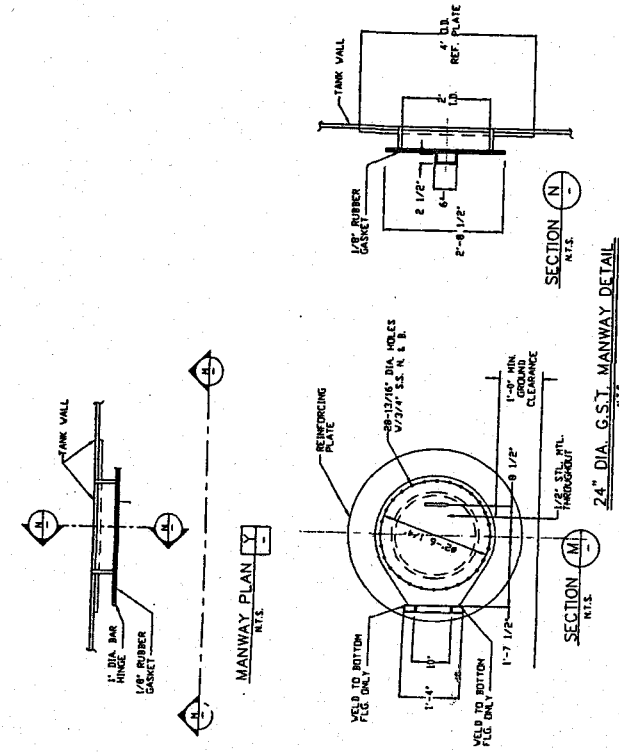
## Fluid Solutions

JOB NO. DESIGNED: KM DRAWING: FH	DATE: 5/04	APPROVED: NMF	SHEET 9	
			OF 11	




TYPICAL ELEVATION  
5,000 GALLON ABOVE GROUND STORAGE TANK

- NOTES:
1. TANK SHALL BE CONSTRUCTED CONFORMING TO AWWA D100-96 STANDARDS.
  2. TANK COATING SHALL CONFORM TO AWWA D102-97 STANDARD FOR POTABLE WATER.



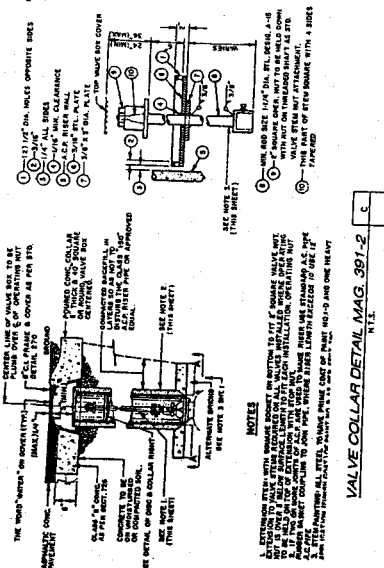
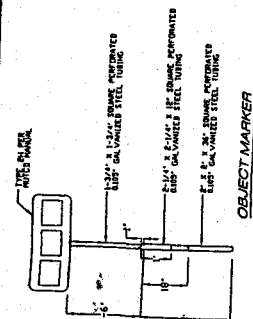
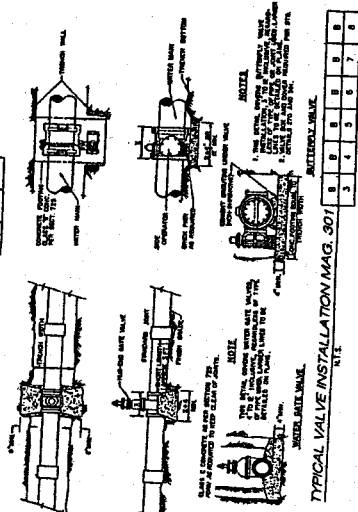
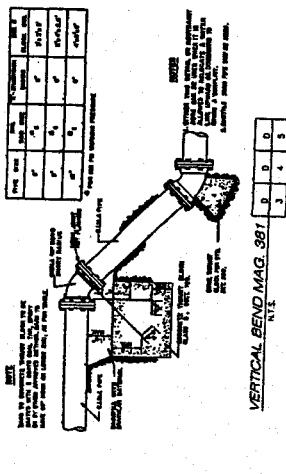
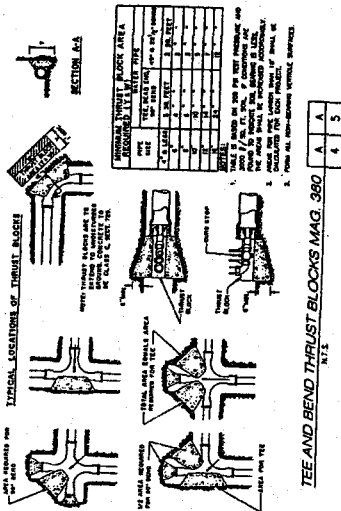
NOTES:

1. LAP SPLICES SHALL BE 30" MIN.
2. ALL BAR SHALL BE CHAINED 1-1/2" ABOVE GROUND AND INSIDE FACE OF SIDES AND TOPS.
3. MATERIAL INSIDE RING SHALL BE TYPE 8. SELECT CRUSHED AGGREGATE IN ACCORDANCE WITH MAC. SECTION 702.
4. ALL BELOW AGGREGATE SHALL BE SCARIFIED AND RECOMPACTED TO 95% STD. PROCTOR. SCARIFY 12" MINIMUM.

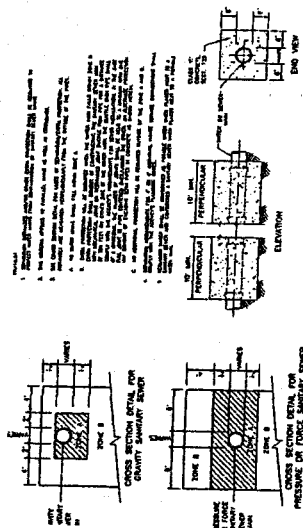
		<b>Fluid Solutions</b> <small>Water Treatment • Pipe Services &amp; Equipment • Sewer &amp; Storm Drain Services • Water Filtration • Water Treatment Chemicals •</small> <small>1411 East 108th Ave • Suite 100 • Denver, CO 80231 • Tel: 303.751.1111 • Fax: 303.751.1112 • Email: info@fluidsolutions.com</small>	
JOB NO.	DISPOSED:	QUANTITY:	DATE:
	KUL	0.00	5/04
COUNTY:		APPROVED:	DATE:
15		NMF	5/04
SHEET		OF	
11		11	



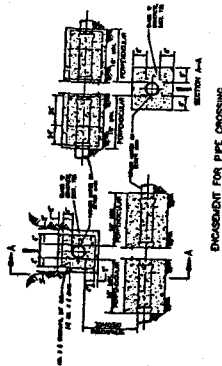
(602) 263-1100  
 BLUE STAIN COPIES



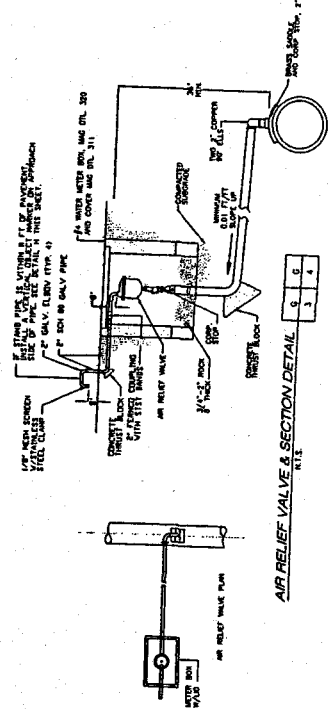
VALVE COLLAR DETAIL MAG. 391-1



CONCRETE ENCASEMENT MAG. 401-2



CONCRETE ENCASEMENT MAG. 401-2



**Fluid Solutions**

WATER UTILITIES OF GREATER TORONTO  
WEST PHOENIX ESTATES WATERLINE  
AND FLUORIDE/ARSENIC REMOVAL AUTOMATION

DESIGNED: NWF  
DRAWN: PM  
APPROVED: NWF  
DATE: 1/24

SHEET 11 OF 11



WPE Waterline

## Bid Schedule

Date	Estimate #
7/28/2005	1379

Cave Creek, Arizona  
(480) 488-8474

Name / Address
Valencia Water Company John Mihlik 3800 N. Central Ave. Suite # 770 Phoenix, AZ 85012

		Project		
		West Phoenix Estates Waterline		
Description	Qty	Unit	Rate	Total
Re: Fluid Solutions plans stamp dated 6/4/05				
4" C-900 Class 200	5,193	LF	17.00	88,281.00
4" D.I.P. Class 350	407	LF	25.50	10,378.50
4" Gate Valve	14	EA	600.00	8,400.00
2" A.R.V.	4	EA	1,350.00	5,400.00
Remove Cap & Connect to Existing	1	EA	500.00	500.00
Misc. Mechanical Joint Fittings	11	EA	150.00	1,650.00
Dispose of Excess Spoils		Lump Sum	5,500.00	5,500.00
Full Depth ABC Backfill per plan		Lump Sum	28,800.00	28,800.00
1/2 Sack ABC Slurry per plan		Lump Sum	6,500.00	6,500.00
Concrete Encasement per plan		Lump Sum	7,800.00	7,800.00
Traffic Control / Trench Plates		Lump Sum	8,400.00	8,400.00
Exclusions: - Connection to existing treatment plant - Removal of Well Connection Pipe - Work @ W.P.E. # 3 Wellsite				
A sincere thanks for the opportunity to bid this project! This bid is valid for 30 days only.			<b>Subtotal</b>	\$171,609.50
			<b>Sales Tax (0.0%)</b>	\$0.00
			<b>Total</b>	\$171,609.50

PO Box 26420  
Scottsdale, AZ 85255  
email@thepipelineco.com

## EXHIBIT E

## Project Data Addendum

**1. Explain the reason or need for the Project – *Attach additional pages, if necessary:***

The need for the project is to install approximately 9,850 feet of water pipeline that will connect the Sunshine system to the Dixie system well site. This will allow a second source of water, storage facility, and increase fire flow to serve the customers in the Sunshine system. Additionally, this will eliminate the need for arsenic treatment at the Sunshine system by blending the water from the Dixie well that currently has an arsenic level of 7ppb.

**2. Project Description – *Attach additional pages, if necessary:***

**A. Give a detailed description of the proposed project. – *Include all components to be constructed***

Please see the attached engineering map and cost estimate produced by Fluid Solutions.

**B. Indicate what has been completed to date with the planning, design and/or construction for the project.**

The engineering map for the pipeline has been completed by Fluid Solutions.



## Water Utility of Greater Tonopah – DW 038-2005

### Project Information:

Attach copies of available Project Engineering Information, such as:

- ☒ Plans and Specifications
- ☐ Project Engineering Reports
- ☐ Project Feasibility Studies
- ☐ Other Technical Data, if related to the Project
- ☐ Capital Improvement Plan

### 3. Estimated Project Schedule

*Please submit all approval documentation.*

Task	Date
Planning, Design & Specifications Submitted	9/2005
Approval to Construct	9/2005
Advertisement for Bids	10/2005
Construction Commencement	11/2005
Construction Completion	12/2005
Initiate Operation	1/2006

### 4. Contractor Selection:

Have you selected a Contractor(s)? ☒ Yes ☐ No *If "Yes," summarize the bidding process. If "No," on what date will the Contractors be selected?*

The Pipeline Company has been selected to install the pipeline. The Pipeline Company has installed other pipelines for WUGT in the area and is available as soon as possible.

### 5. Licenses and Permits

List Local, State, and Federal Licenses and Permits required for the Proposed Project.

License/Permit Approvals	Date Expected	Date Approved
Maricopa County Environmental Services Permit to Construct	9/2005	

**6. Project Funding Sources & Uses**

Uses by Budget Item	WIFA Funding	Local Funding	Other:	Total By Use
Planning				
Design & Engineering - Permits				
Legal/Debt Authorization		5,000		5,000
Financial Advisor				
Land/System Acquisition				
Equipment/Materials	10,000			10,000
Construction/Installation/Improvement	187,000			187,000
Inspection & Construction Management				
Project Officer				
Administration		5,000		5,000
Staff Training				
Capitalized Interest				
Other - Contingency		5,000		5,000
<b>Total by Source</b>	<b>197,000</b>	<b>15,000</b>		
<b>Total for Project</b>			<b>212,000</b>	

**7. Engineering Cost Estimate**

Has an engineering cost estimate been performed on this Project? ☒ Yes ☐ No

*If "Yes," include a copy of the cost estimate.*

*If "No," Provide an explanation or documentation on which the Project costs were based.*

Project costs are based on the preliminary costs estimates provided by Fluid Solutions.

**8. Project Costs Expended to Date: \$**

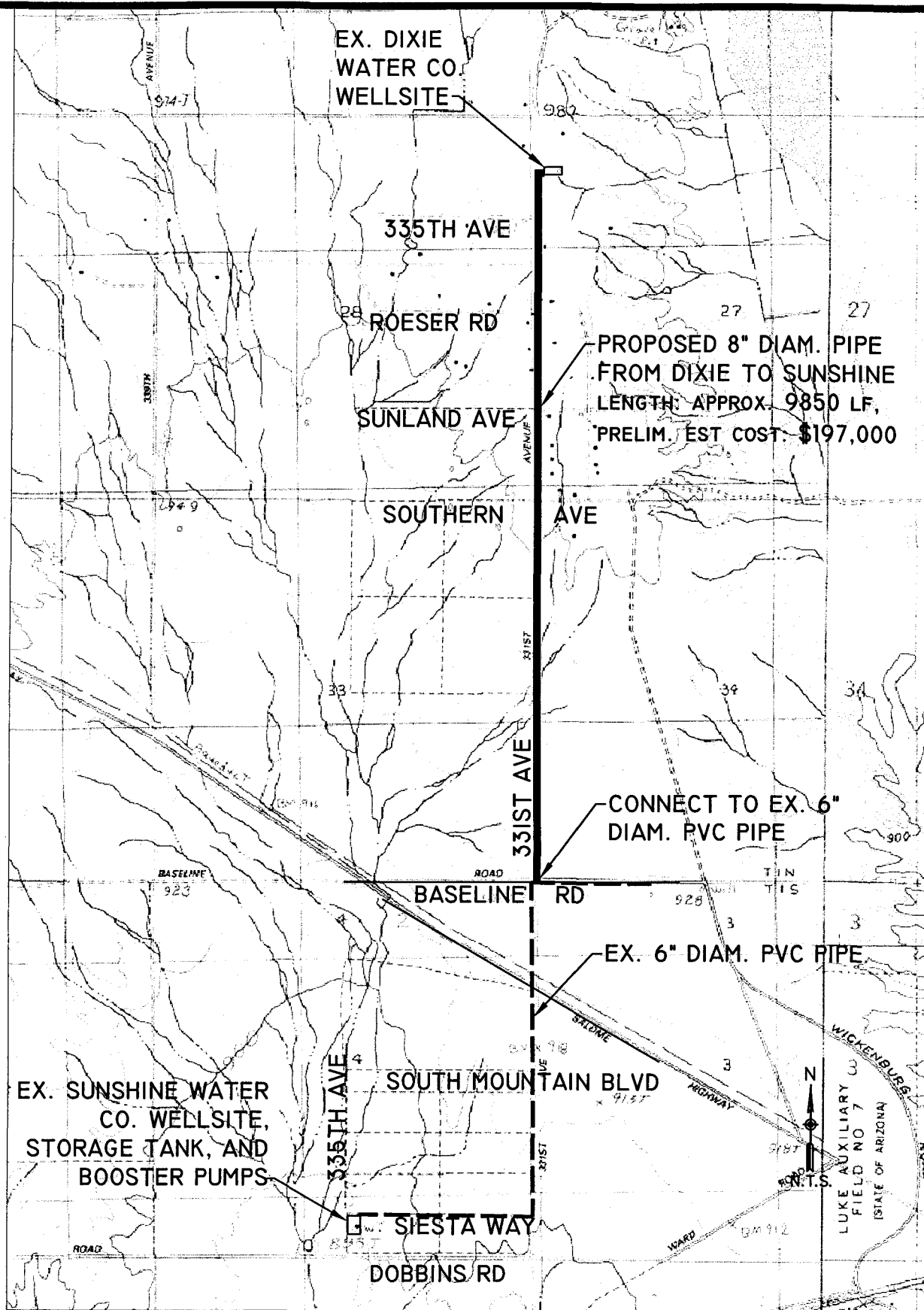
Will you seek reimbursement for Project Costs Expended to Date? ☐ Yes ☒ No

*If "Yes," identify the costs and explain why WIFA should reimburse these costs.*

**9. Operation and Technical impact:**

Will there be significant operating or technical impacts as the result of the proposed technology? ☐ Yes ☒ No *Explain response below.*

The new pipeline will require very minimal maintenance.



**Fluid Solutions**

Water, Wastewater, Engineering & Environmental Services  
1121 EAST MISSOURI AVENUE • SUITE 100 • PHOENIX, ARIZONA 85014

## PROPOSED WATERLINE

WATER UTILITY OF GREATER TONOPAH  
CONNECTION OF DIXIE AND SUNSHINE WATER COMPANIES

## EXHIBIT F

# Loan Calculator

Enter Values	
Loan Amount	\$ 527,000.00
Annual Interest Rate	4.55 %
Loan Period in Years	20
Number of Payments Per Year	12
Start Date of Loan	1/1/2006
Optional Extra Payments	

Loan Summary	
Scheduled Payment	\$ 3,348.30
Scheduled Number of Payments	240
Actual Number of Payments	240
Total Early Payments	\$ -
Total Interest	\$ 276,592.61

Lender Name: WIFA

Pmt No.	Payment Date	Beginning Balance	Scheduled Payment	Extra Payment	Total Payment	Principal	Interest	Ending Balance
1	2/1/2006	\$ 527,000.00	\$ 3,348.30	\$ -	\$ 3,348.30	\$ 1,350.09	\$ 1,998.21	\$ 525,649.91
2	3/1/2006	525,649.91	3,348.30	-	3,348.30	1,355.21	1,993.09	524,294.69
3	4/1/2006	524,294.69	3,348.30	-	3,348.30	1,360.35	1,987.95	522,934.34
4	5/1/2006	522,934.34	3,348.30	-	3,348.30	1,365.51	1,982.79	521,568.83
5	6/1/2006	521,568.83	3,348.30	-	3,348.30	1,370.69	1,977.62	520,198.14
6	7/1/2006	520,198.14	3,348.30	-	3,348.30	1,375.88	1,972.42	518,822.26
7	8/1/2006	518,822.26	3,348.30	-	3,348.30	1,381.10	1,967.20	517,441.16
8	9/1/2006	517,441.16	3,348.30	-	3,348.30	1,386.34	1,961.96	516,054.82
9	10/1/2006	516,054.82	3,348.30	-	3,348.30	1,391.59	1,956.71	514,663.22
10	11/1/2006	514,663.22	3,348.30	-	3,348.30	1,396.87	1,951.43	513,266.35
11	12/1/2006	513,266.35	3,348.30	-	3,348.30	1,402.17	1,946.13	511,864.19
12	1/1/2007	511,864.19	3,348.30	-	3,348.30	1,407.48	1,940.82	510,456.70
13	2/1/2007	510,456.70	3,348.30	-	3,348.30	1,412.82	1,935.48	509,043.88
14	3/1/2007	509,043.88	3,348.30	-	3,348.30	1,418.18	1,930.12	507,625.70
15	4/1/2007	507,625.70	3,348.30	-	3,348.30	1,423.56	1,924.75	506,202.15
16	5/1/2007	506,202.15	3,348.30	-	3,348.30	1,428.95	1,919.35	504,773.20
17	6/1/2007	504,773.20	3,348.30	-	3,348.30	1,434.37	1,913.93	503,338.82
18	7/1/2007	503,338.82	3,348.30	-	3,348.30	1,439.81	1,908.49	501,899.01
19	8/1/2007	501,899.01	3,348.30	-	3,348.30	1,445.27	1,903.03	500,453.75
20	9/1/2007	500,453.75	3,348.30	-	3,348.30	1,450.75	1,897.55	499,003.00
21	10/1/2007	499,003.00	3,348.30	-	3,348.30	1,456.25	1,892.05	497,546.75
22	11/1/2007	497,546.75	3,348.30	-	3,348.30	1,461.77	1,886.53	496,084.98
23	12/1/2007	496,084.98	3,348.30	-	3,348.30	1,467.31	1,880.99	494,617.66
24	1/1/2008	494,617.66	3,348.30	-	3,348.30	1,472.88	1,875.43	493,144.79
25	2/1/2008	493,144.79	3,348.30	-	3,348.30	1,478.46	1,869.84	491,666.32
26	3/1/2008	491,666.32	3,348.30	-	3,348.30	1,484.07	1,864.23	490,182.26
27	4/1/2008	490,182.26	3,348.30	-	3,348.30	1,489.69	1,858.61	488,692.56
28	5/1/2008	488,692.56	3,348.30	-	3,348.30	1,495.34	1,852.96	487,197.22
29	6/1/2008	487,197.22	3,348.30	-	3,348.30	1,501.01	1,847.29	485,696.20
30	7/1/2008	485,696.20	3,348.30	-	3,348.30	1,506.70	1,841.60	484,189.50
31	8/1/2008	484,189.50	3,348.30	-	3,348.30	1,512.42	1,835.89	482,677.08
32	9/1/2008	482,677.08	3,348.30	-	3,348.30	1,518.15	1,830.15	481,158.93
33	10/1/2008	481,158.93	3,348.30	-	3,348.30	1,523.91	1,824.39	479,635.02
34	11/1/2008	479,635.02	3,348.30	-	3,348.30	1,529.69	1,818.62	478,105.34
35	12/1/2008	478,105.34	3,348.30	-	3,348.30	1,535.49	1,812.82	476,569.85
36	1/1/2009	476,569.85	3,348.30	-	3,348.30	1,541.31	1,806.99	475,028.54
37	2/1/2009	475,028.54	3,348.30	-	3,348.30	1,547.15	1,801.15	473,481.39
38	3/1/2009	473,481.39	3,348.30	-	3,348.30	1,553.02	1,795.28	471,928.37
39	4/1/2009	471,928.37	3,348.30	-	3,348.30	1,558.91	1,789.40	470,369.46
40	5/1/2009	470,369.46	3,348.30	-	3,348.30	1,564.82	1,783.48	468,804.64
41	6/1/2009	468,804.64	3,348.30	-	3,348.30	1,570.75	1,777.55	467,233.89
42	7/1/2009	467,233.89	3,348.30	-	3,348.30	1,576.71	1,771.60	465,657.19
43	8/1/2009	465,657.19	3,348.30	-	3,348.30	1,582.69	1,765.62	464,074.50
44	9/1/2009	464,074.50	3,348.30	-	3,348.30	1,588.69	1,759.62	462,485.81
45	10/1/2009	462,485.81	3,348.30	-	3,348.30	1,594.71	1,753.59	460,891.10
46	11/1/2009	460,891.10	3,348.30	-	3,348.30	1,600.76	1,747.55	459,290.35
47	12/1/2009	459,290.35	3,348.30	-	3,348.30	1,606.83	1,741.48	457,683.52
48	1/1/2010	457,683.52	3,348.30	-	3,348.30	1,612.92	1,735.38	456,070.60
49	2/1/2010	456,070.60	3,348.30	-	3,348.30	1,619.03	1,729.27	454,451.56
50	3/1/2010	454,451.56	3,348.30	-	3,348.30	1,625.17	1,723.13	452,826.39
51	4/1/2010	452,826.39	3,348.30	-	3,348.30	1,631.34	1,716.97	451,195.05
52	5/1/2010	451,195.05	3,348.30	-	3,348.30	1,637.52	1,710.78	449,557.53
53	6/1/2010	449,557.53	3,348.30	-	3,348.30	1,643.73	1,704.57	447,913.80
54	7/1/2010	447,913.80	3,348.30	-	3,348.30	1,649.96	1,698.34	446,263.84

Pmt No.	Payment Date	Beginning Balance	Scheduled Payment	Extra Payment	Total Payment	Principal	Interest	Ending Balance
55	8/1/2010	446,263.84	3,348.30	-	3,348.30	1,656.22	1,692.08	444,607.62
56	9/1/2010	444,607.62	3,348.30	-	3,348.30	1,662.50	1,685.80	442,945.12
57	10/1/2010	442,945.12	3,348.30	-	3,348.30	1,668.80	1,679.50	441,276.32
58	11/1/2010	441,276.32	3,348.30	-	3,348.30	1,675.13	1,673.17	439,601.19
59	12/1/2010	439,601.19	3,348.30	-	3,348.30	1,681.48	1,666.82	437,919.71
60	1/1/2011	437,919.71	3,348.30	-	3,348.30	1,687.86	1,660.45	436,231.85
61	2/1/2011	436,231.85	3,348.30	-	3,348.30	1,694.26	1,654.05	434,537.60
62	3/1/2011	434,537.60	3,348.30	-	3,348.30	1,700.68	1,647.62	432,836.92
63	4/1/2011	432,836.92	3,348.30	-	3,348.30	1,707.13	1,641.17	431,129.79
64	5/1/2011	431,129.79	3,348.30	-	3,348.30	1,713.60	1,634.70	429,416.18
65	6/1/2011	429,416.18	3,348.30	-	3,348.30	1,720.10	1,628.20	427,696.08
66	7/1/2011	427,696.08	3,348.30	-	3,348.30	1,726.62	1,621.68	425,969.46
67	8/1/2011	425,969.46	3,348.30	-	3,348.30	1,733.17	1,615.13	424,236.29
68	9/1/2011	424,236.29	3,348.30	-	3,348.30	1,739.74	1,608.56	422,496.55
69	10/1/2011	422,496.55	3,348.30	-	3,348.30	1,746.34	1,601.97	420,750.22
70	11/1/2011	420,750.22	3,348.30	-	3,348.30	1,752.96	1,595.34	418,997.26
71	12/1/2011	418,997.26	3,348.30	-	3,348.30	1,759.60	1,588.70	417,237.66
72	1/1/2012	417,237.66	3,348.30	-	3,348.30	1,766.28	1,582.03	415,471.38
73	2/1/2012	415,471.38	3,348.30	-	3,348.30	1,772.97	1,575.33	413,698.41
74	3/1/2012	413,698.41	3,348.30	-	3,348.30	1,779.70	1,568.61	411,918.71
75	4/1/2012	411,918.71	3,348.30	-	3,348.30	1,786.44	1,561.86	410,132.27
76	5/1/2012	410,132.27	3,348.30	-	3,348.30	1,793.22	1,555.08	408,339.05
77	6/1/2012	408,339.05	3,348.30	-	3,348.30	1,800.02	1,548.29	406,539.03
78	7/1/2012	406,539.03	3,348.30	-	3,348.30	1,806.84	1,541.46	404,732.19
79	8/1/2012	404,732.19	3,348.30	-	3,348.30	1,813.69	1,534.61	402,918.50
80	9/1/2012	402,918.50	3,348.30	-	3,348.30	1,820.57	1,527.73	401,097.93
81	10/1/2012	401,097.93	3,348.30	-	3,348.30	1,827.47	1,520.83	399,270.45
82	11/1/2012	399,270.45	3,348.30	-	3,348.30	1,834.40	1,513.90	397,436.05
83	12/1/2012	397,436.05	3,348.30	-	3,348.30	1,841.36	1,506.95	395,594.69
84	1/1/2013	395,594.69	3,348.30	-	3,348.30	1,848.34	1,499.96	393,746.35
85	2/1/2013	393,746.35	3,348.30	-	3,348.30	1,855.35	1,492.95	391,891.01
86	3/1/2013	391,891.01	3,348.30	-	3,348.30	1,862.38	1,485.92	390,028.62
87	4/1/2013	390,028.62	3,348.30	-	3,348.30	1,869.44	1,478.86	388,159.18
88	5/1/2013	388,159.18	3,348.30	-	3,348.30	1,876.53	1,471.77	386,282.65
89	6/1/2013	386,282.65	3,348.30	-	3,348.30	1,883.65	1,464.66	384,399.00
90	7/1/2013	384,399.00	3,348.30	-	3,348.30	1,890.79	1,457.51	382,508.21
91	8/1/2013	382,508.21	3,348.30	-	3,348.30	1,897.96	1,450.34	380,610.25
92	9/1/2013	380,610.25	3,348.30	-	3,348.30	1,905.16	1,443.15	378,705.10
93	10/1/2013	378,705.10	3,348.30	-	3,348.30	1,912.38	1,435.92	376,792.72
94	11/1/2013	376,792.72	3,348.30	-	3,348.30	1,919.63	1,428.67	374,873.09
95	12/1/2013	374,873.09	3,348.30	-	3,348.30	1,926.91	1,421.39	372,946.18
96	1/1/2014	372,946.18	3,348.30	-	3,348.30	1,934.21	1,414.09	371,011.96
97	2/1/2014	371,011.96	3,348.30	-	3,348.30	1,941.55	1,406.75	369,070.41
98	3/1/2014	369,070.41	3,348.30	-	3,348.30	1,948.91	1,399.39	367,121.50
99	4/1/2014	367,121.50	3,348.30	-	3,348.30	1,956.30	1,392.00	365,165.20
100	5/1/2014	365,165.20	3,348.30	-	3,348.30	1,963.72	1,384.58	363,201.49
101	6/1/2014	363,201.49	3,348.30	-	3,348.30	1,971.16	1,377.14	361,230.32
102	7/1/2014	361,230.32	3,348.30	-	3,348.30	1,978.64	1,369.66	359,251.68
103	8/1/2014	359,251.68	3,348.30	-	3,348.30	1,986.14	1,362.16	357,265.54
104	9/1/2014	357,265.54	3,348.30	-	3,348.30	1,993.67	1,354.63	355,271.87
105	10/1/2014	355,271.87	3,348.30	-	3,348.30	2,001.23	1,347.07	353,270.64
106	11/1/2014	353,270.64	3,348.30	-	3,348.30	2,008.82	1,339.48	351,261.83
107	12/1/2014	351,261.83	3,348.30	-	3,348.30	2,016.43	1,331.87	349,245.39
108	1/1/2015	349,245.39	3,348.30	-	3,348.30	2,024.08	1,324.22	347,221.31
109	2/1/2015	347,221.31	3,348.30	-	3,348.30	2,031.76	1,316.55	345,189.56
110	3/1/2015	345,189.56	3,348.30	-	3,348.30	2,039.46	1,308.84	343,150.10
111	4/1/2015	343,150.10	3,348.30	-	3,348.30	2,047.19	1,301.11	341,102.91
112	5/1/2015	341,102.91	3,348.30	-	3,348.30	2,054.95	1,293.35	339,047.95
113	6/1/2015	339,047.95	3,348.30	-	3,348.30	2,062.75	1,285.56	336,985.21
114	7/1/2015	336,985.21	3,348.30	-	3,348.30	2,070.57	1,277.74	334,914.64
115	8/1/2015	334,914.64	3,348.30	-	3,348.30	2,078.42	1,269.88	332,836.22
116	9/1/2015	332,836.22	3,348.30	-	3,348.30	2,086.30	1,262.00	330,749.92
117	10/1/2015	330,749.92	3,348.30	-	3,348.30	2,094.21	1,254.09	328,655.71
118	11/1/2015	328,655.71	3,348.30	-	3,348.30	2,102.15	1,246.15	326,553.56
119	12/1/2015	326,553.56	3,348.30	-	3,348.30	2,110.12	1,238.18	324,443.44
120	1/1/2016	324,443.44	3,348.30	-	3,348.30	2,118.12	1,230.18	322,325.32
121	2/1/2016	322,325.32	3,348.30	-	3,348.30	2,126.15	1,222.15	320,199.17
122	3/1/2016	320,199.17	3,348.30	-	3,348.30	2,134.21	1,214.09	318,064.96

Pmt No.	Payment Date	Beginning Balance	Scheduled Payment	Extra Payment	Total Payment	Principal	Interest	Ending Balance
123	4/1/2016	318,064.96	3,348.30	-	3,348.30	2,142.31	1,206.00	315,922.65
124	5/1/2016	315,922.65	3,348.30	-	3,348.30	2,150.43	1,197.87	313,772.22
125	6/1/2016	313,772.22	3,348.30	-	3,348.30	2,158.58	1,189.72	311,613.64
126	7/1/2016	311,613.64	3,348.30	-	3,348.30	2,166.77	1,181.54	309,446.87
127	8/1/2016	309,446.87	3,348.30	-	3,348.30	2,174.98	1,173.32	307,271.89
128	9/1/2016	307,271.89	3,348.30	-	3,348.30	2,183.23	1,165.07	305,088.66
129	10/1/2016	305,088.66	3,348.30	-	3,348.30	2,191.51	1,156.79	302,897.15
130	11/1/2016	302,897.15	3,348.30	-	3,348.30	2,199.82	1,148.49	300,697.33
131	12/1/2016	300,697.33	3,348.30	-	3,348.30	2,208.16	1,140.14	298,489.17
132	1/1/2017	298,489.17	3,348.30	-	3,348.30	2,216.53	1,131.77	296,272.64
133	2/1/2017	296,272.64	3,348.30	-	3,348.30	2,224.94	1,123.37	294,047.71
134	3/1/2017	294,047.71	3,348.30	-	3,348.30	2,233.37	1,114.93	291,814.33
135	4/1/2017	291,814.33	3,348.30	-	3,348.30	2,241.84	1,106.46	289,572.49
136	5/1/2017	289,572.49	3,348.30	-	3,348.30	2,250.34	1,097.96	287,322.15
137	6/1/2017	287,322.15	3,348.30	-	3,348.30	2,258.87	1,089.43	285,063.28
138	7/1/2017	285,063.28	3,348.30	-	3,348.30	2,267.44	1,080.86	282,795.84
139	8/1/2017	282,795.84	3,348.30	-	3,348.30	2,276.03	1,072.27	280,519.81
140	9/1/2017	280,519.81	3,348.30	-	3,348.30	2,284.66	1,063.64	278,235.14
141	10/1/2017	278,235.14	3,348.30	-	3,348.30	2,293.33	1,054.97	275,941.82
142	11/1/2017	275,941.82	3,348.30	-	3,348.30	2,302.02	1,046.28	273,639.79
143	12/1/2017	273,639.79	3,348.30	-	3,348.30	2,310.75	1,037.55	271,329.04
144	1/1/2018	271,329.04	3,348.30	-	3,348.30	2,319.51	1,028.79	269,009.53
145	2/1/2018	269,009.53	3,348.30	-	3,348.30	2,328.31	1,019.99	266,681.22
146	3/1/2018	266,681.22	3,348.30	-	3,348.30	2,337.14	1,011.17	264,344.08
147	4/1/2018	264,344.08	3,348.30	-	3,348.30	2,346.00	1,002.30	261,998.09
148	5/1/2018	261,998.09	3,348.30	-	3,348.30	2,354.89	993.41	259,643.19
149	6/1/2018	259,643.19	3,348.30	-	3,348.30	2,363.82	984.48	257,279.37
150	7/1/2018	257,279.37	3,348.30	-	3,348.30	2,372.78	975.52	254,906.59
151	8/1/2018	254,906.59	3,348.30	-	3,348.30	2,381.78	966.52	252,524.80
152	9/1/2018	252,524.80	3,348.30	-	3,348.30	2,390.81	957.49	250,133.99
153	10/1/2018	250,133.99	3,348.30	-	3,348.30	2,399.88	948.42	247,734.11
154	11/1/2018	247,734.11	3,348.30	-	3,348.30	2,408.98	939.33	245,325.14
155	12/1/2018	245,325.14	3,348.30	-	3,348.30	2,418.11	930.19	242,907.03
156	1/1/2019	242,907.03	3,348.30	-	3,348.30	2,427.28	921.02	240,479.75
157	2/1/2019	240,479.75	3,348.30	-	3,348.30	2,436.48	911.82	238,043.26
158	3/1/2019	238,043.26	3,348.30	-	3,348.30	2,445.72	902.58	235,597.54
159	4/1/2019	235,597.54	3,348.30	-	3,348.30	2,455.00	893.31	233,142.54
160	5/1/2019	233,142.54	3,348.30	-	3,348.30	2,464.30	884.00	230,678.24
161	6/1/2019	230,678.24	3,348.30	-	3,348.30	2,473.65	874.65	228,204.59
162	7/1/2019	228,204.59	3,348.30	-	3,348.30	2,483.03	865.28	225,721.57
163	8/1/2019	225,721.57	3,348.30	-	3,348.30	2,492.44	855.86	223,229.12
164	9/1/2019	223,229.12	3,348.30	-	3,348.30	2,501.89	846.41	220,727.23
165	10/1/2019	220,727.23	3,348.30	-	3,348.30	2,511.38	836.92	218,215.85
166	11/1/2019	218,215.85	3,348.30	-	3,348.30	2,520.90	827.40	215,694.95
167	12/1/2019	215,694.95	3,348.30	-	3,348.30	2,530.46	817.84	213,164.49
168	1/1/2020	213,164.49	3,348.30	-	3,348.30	2,540.05	808.25	210,624.44
169	2/1/2020	210,624.44	3,348.30	-	3,348.30	2,549.68	798.62	208,074.76
170	3/1/2020	208,074.76	3,348.30	-	3,348.30	2,559.35	788.95	205,515.40
171	4/1/2020	205,515.40	3,348.30	-	3,348.30	2,569.06	779.25	202,946.35
172	5/1/2020	202,946.35	3,348.30	-	3,348.30	2,578.80	769.50	200,367.55
173	6/1/2020	200,367.55	3,348.30	-	3,348.30	2,588.58	759.73	197,778.97
174	7/1/2020	197,778.97	3,348.30	-	3,348.30	2,598.39	749.91	195,180.58
175	8/1/2020	195,180.58	3,348.30	-	3,348.30	2,608.24	740.06	192,572.34
176	9/1/2020	192,572.34	3,348.30	-	3,348.30	2,618.13	730.17	189,954.21
177	10/1/2020	189,954.21	3,348.30	-	3,348.30	2,628.06	720.24	187,326.15
178	11/1/2020	187,326.15	3,348.30	-	3,348.30	2,638.02	710.28	184,688.12
179	12/1/2020	184,688.12	3,348.30	-	3,348.30	2,648.03	700.28	182,040.10
180	1/1/2021	182,040.10	3,348.30	-	3,348.30	2,658.07	690.24	179,382.03
181	2/1/2021	179,382.03	3,348.30	-	3,348.30	2,668.15	680.16	176,713.88
182	3/1/2021	176,713.88	3,348.30	-	3,348.30	2,678.26	670.04	174,035.62
183	4/1/2021	174,035.62	3,348.30	-	3,348.30	2,688.42	659.89	171,347.20
184	5/1/2021	171,347.20	3,348.30	-	3,348.30	2,698.61	649.69	168,648.59
185	6/1/2021	168,648.59	3,348.30	-	3,348.30	2,708.84	639.46	165,939.75
186	7/1/2021	165,939.75	3,348.30	-	3,348.30	2,719.11	629.19	163,220.64
187	8/1/2021	163,220.64	3,348.30	-	3,348.30	2,729.42	618.88	160,491.21
188	9/1/2021	160,491.21	3,348.30	-	3,348.30	2,739.77	608.53	157,751.44
189	10/1/2021	157,751.44	3,348.30	-	3,348.30	2,750.16	598.14	155,001.28
190	11/1/2021	155,001.28	3,348.30	-	3,348.30	2,760.59	587.71	152,240.69

Pmt No.	Payment Date	Beginning Balance	Scheduled Payment	Extra Payment	Total Payment	Principal	Interest	Ending Balance
191	12/1/2021	152,240.69	3,348.30	-	3,348.30	2,771.06	577.25	149,469.63
192	1/1/2022	149,469.63	3,348.30	-	3,348.30	2,781.56	566.74	146,688.07
193	2/1/2022	146,688.07	3,348.30	-	3,348.30	2,792.11	556.19	143,895.96
194	3/1/2022	143,895.96	3,348.30	-	3,348.30	2,802.70	545.61	141,093.26
195	4/1/2022	141,093.26	3,348.30	-	3,348.30	2,813.32	534.98	138,279.94
196	5/1/2022	138,279.94	3,348.30	-	3,348.30	2,823.99	524.31	135,455.94
197	6/1/2022	135,455.94	3,348.30	-	3,348.30	2,834.70	513.60	132,621.25
198	7/1/2022	132,621.25	3,348.30	-	3,348.30	2,845.45	502.86	129,775.80
199	8/1/2022	129,775.80	3,348.30	-	3,348.30	2,856.24	492.07	126,919.56
200	9/1/2022	126,919.56	3,348.30	-	3,348.30	2,867.07	481.24	124,052.50
201	10/1/2022	124,052.50	3,348.30	-	3,348.30	2,877.94	470.37	121,174.56
202	11/1/2022	121,174.56	3,348.30	-	3,348.30	2,888.85	459.45	118,285.71
203	12/1/2022	118,285.71	3,348.30	-	3,348.30	2,899.80	448.50	115,385.91
204	1/1/2023	115,385.91	3,348.30	-	3,348.30	2,910.80	437.50	112,475.11
205	2/1/2023	112,475.11	3,348.30	-	3,348.30	2,921.83	426.47	109,553.28
206	3/1/2023	109,553.28	3,348.30	-	3,348.30	2,932.91	415.39	106,620.36
207	4/1/2023	106,620.36	3,348.30	-	3,348.30	2,944.03	404.27	103,676.33
208	5/1/2023	103,676.33	3,348.30	-	3,348.30	2,955.20	393.11	100,721.13
209	6/1/2023	100,721.13	3,348.30	-	3,348.30	2,966.40	381.90	97,754.73
210	7/1/2023	97,754.73	3,348.30	-	3,348.30	2,977.65	370.65	94,777.08
211	8/1/2023	94,777.08	3,348.30	-	3,348.30	2,988.94	359.36	91,788.14
212	9/1/2023	91,788.14	3,348.30	-	3,348.30	3,000.27	348.03	88,787.87
213	10/1/2023	88,787.87	3,348.30	-	3,348.30	3,011.65	336.65	85,776.22
214	11/1/2023	85,776.22	3,348.30	-	3,348.30	3,023.07	325.23	82,753.15
215	12/1/2023	82,753.15	3,348.30	-	3,348.30	3,034.53	313.77	79,718.62
216	1/1/2024	79,718.62	3,348.30	-	3,348.30	3,046.04	302.27	76,672.59
217	2/1/2024	76,672.59	3,348.30	-	3,348.30	3,057.59	290.72	73,615.00
218	3/1/2024	73,615.00	3,348.30	-	3,348.30	3,069.18	279.12	70,545.82
219	4/1/2024	70,545.82	3,348.30	-	3,348.30	3,080.82	267.49	67,465.01
220	5/1/2024	67,465.01	3,348.30	-	3,348.30	3,092.50	255.80	64,372.51
221	6/1/2024	64,372.51	3,348.30	-	3,348.30	3,104.22	244.08	61,268.29
222	7/1/2024	61,268.29	3,348.30	-	3,348.30	3,115.99	232.31	58,152.29
223	8/1/2024	58,152.29	3,348.30	-	3,348.30	3,127.81	220.49	55,024.48
224	9/1/2024	55,024.48	3,348.30	-	3,348.30	3,139.67	208.63	51,884.82
225	10/1/2024	51,884.82	3,348.30	-	3,348.30	3,151.57	196.73	48,733.24
226	11/1/2024	48,733.24	3,348.30	-	3,348.30	3,163.52	184.78	45,569.72
227	12/1/2024	45,569.72	3,348.30	-	3,348.30	3,175.52	172.79	42,394.20
228	1/1/2025	42,394.20	3,348.30	-	3,348.30	3,187.56	160.74	39,206.65
229	2/1/2025	39,206.65	3,348.30	-	3,348.30	3,199.64	148.66	36,007.00
230	3/1/2025	36,007.00	3,348.30	-	3,348.30	3,211.78	136.53	32,795.23
231	4/1/2025	32,795.23	3,348.30	-	3,348.30	3,223.95	124.35	29,571.27
232	5/1/2025	29,571.27	3,348.30	-	3,348.30	3,236.18	112.12	26,335.09
233	6/1/2025	26,335.09	3,348.30	-	3,348.30	3,248.45	99.85	23,086.65
234	7/1/2025	23,086.65	3,348.30	-	3,348.30	3,260.77	87.54	19,825.88
235	8/1/2025	19,825.88	3,348.30	-	3,348.30	3,273.13	75.17	16,552.75
236	9/1/2025	16,552.75	3,348.30	-	3,348.30	3,285.54	62.76	13,267.21
237	10/1/2025	13,267.21	3,348.30	-	3,348.30	3,298.00	50.30	9,969.21
238	11/1/2025	9,969.21	3,348.30	-	3,348.30	3,310.50	37.80	6,658.71
239	12/1/2025	6,658.71	3,348.30	-	3,348.30	3,323.05	25.25	3,335.65
240	1/1/2026	3,335.65	3,348.30	-	3,335.65	3,323.01	12.65	0.00



## EXHIBIT G

**Water Utility of Greater Tonopah, Inc.**  
**Balance Sheet - Pro Forma**  
**December 31, 2004**

ASSETS	2004	Pro Forma Adjustments	Pro Forma 2004
PROPERTY, PLANT & EQUIPMENT	1,219,293.00	527,000.00	1,746,293.00
Construction in Progress	7,949.47		7,949.47
Accumulated Depreciation	(503,943.76)	(26,350.00)	(530,293.76)
<b>TOTAL PROPERTY, PLANT &amp; EQUIP.</b>	<b>723,298.71</b>	<b>500,650.00</b>	<b>1,223,948.71</b>
 CURRENT ASSETS			
Cash	3,383.62	(37,707.73)	(34,324.11)
Accounts Receivable	6,245.91		6,245.91
Other Receivable	0.00		0.00
Prepaid Expense	2,659.86		2,659.86
<b>TOTAL CURRENT ASSETS</b>	<b>12,289.39</b>	<b>(37,707.73)</b>	<b>(25,418.34)</b>
 OTHER ASSETS			
Restricted Cash	2,416.75	8,010.40	10,427.15
Deferred Income Taxes	14,876.00		14,876.00
Deferred CAP Costs Fee	23,680.00		23,680.00
Deposits	0.00		0.00
Inter-Co Receivable	0.00		0.00
Investments	0.00		0.00
<b>TOTAL OTHER ASSETS</b>	<b>40,972.75</b>	<b>8,010.40</b>	<b>48,983.15</b>
<b>TOTAL ASSETS</b>	<b>776,560.85</b>	<b>470,952.67</b>	<b>1,247,513.52</b>

**Water Utility of Greater Tonopah, Inc.**  
**Balance Sheet - Pro Forma**  
**December 31, 2004**

STOCKHOLDER'S EQUITY & LIABILITIES	2004	Pro Forma Adjustments	Pro Forma 2004
<b>STOCKHOLDER'S EQUITY</b>			
Common Stock	13,500.00		13,500.00
Additional Paid in Capital	643,183.00		643,183.00
Retained Earnings	(530,609.45)	16,543.30	(514,066.15)
Net Income	6,787.32	(56,047.33)	(49,260.01)
<b>TOTAL STOCKHOLDER'S EQUITY</b>	<b>132,860.87</b>	<b>(39,504.03)</b>	<b>93,356.84</b>
<b>LONG-TERM DEBT</b>			
L-T Debt (Net of C/P)	89,534.69	493,144.79	582,679.48
<b>TOTAL LONG-TERM DEBT</b>	<b>89,534.69</b>	<b>493,144.79</b>	<b>582,679.48</b>
<b>CURRENT LIABILITIES</b>			
Current Portion of L-T Debt	3,628.07	17,311.91	20,939.98
Account Payable	0.00		0.00
Customer Security Deposits	3,570.00		3,570.00
Current Portion of AIAC	173.17		173.17
Accrued Property Taxes	1,948.67		1,948.67
Accrued Sales & Use Taxes	596.85		596.85
Accrued Income Tax	0.00		0.00
<b>TOTAL CURRENT LIABILITIES</b>	<b>9,916.76</b>	<b>17,311.91</b>	<b>27,228.67</b>
<b>DEFERRED LIABILITIES</b>			
Meter Deposits	54,472.00		54,472.00
Inter-Co Payable	22,217.06		22,217.06
AIAC (Net of C/P)	457,056.18		457,056.18
Contribution for Construction	10,794.21		10,794.21
Amortization of Contributions	(290.92)		(290.92)
<b>TOTAL DEFERRED LIABILITIES</b>	<b>544,248.53</b>	<b>0.00</b>	<b>544,248.53</b>
<b>TOTAL STOCKHOLDER'S EQUITY &amp; LIABILITIES</b>	<b>776,560.85</b>	<b>470,952.67</b>	<b>1,247,513.52</b>

**Water Utility of Greater Tonopah, Inc.**  
**Income Statement - Pro Forma**  
**For the Twelve Months Ending December 31, 2004**

	Year to Date 2004	Pro Forma Adjustments	Pro Forma 2004
Water Sales	146,146.65		146,146.65
Other Operating Revenue	5,566.24		5,566.24
<b>TOTAL OPERATING REVENUE</b>	<b>151,712.89</b>	<b>0.00</b>	<b>151,712.89</b>
<b>OPERATING EXPENSE</b>			
Wages	21,071.78		21,071.78
Employee Benefits	2,342.91		2,342.91
IRA Contribution	220.48		220.48
Purchased Power	9,550.59		9,550.59
Repairs & Maintenance	2,043.89		2,043.89
Water Testing & Treat.	5,164.96	9,716.00 (A)	14,880.96
Outside Services	5,610.48		5,610.48
Management Fees	24,450.00		24,450.00
Transportation	0.00		0.00
General Office & Admin.	1,647.49		1,647.49
Rent	705.60		705.60
General Insurance	2,821.80		2,821.80
Depreciation	52,775.55	26,350.00 (B)	79,125.55
Rate Case Expense	0.00		0.00
Bad Debts	1,021.11		1,021.11
Regulatory/Permits	1,107.68		1,107.68
Payroll Taxes	2,025.90		2,025.90
Property Taxes	4,633.36		4,633.36
Income Taxes	5,082.00	(5,082.00) (C)	0.00
<b>TOTAL OPERATING EXPENSES</b>	<b>142,275.58</b>	<b>30,984.00</b>	<b>173,259.58</b>
<b>EARNINGS (LOSS) FROM OPERATIONS</b>	<b>9,437.31</b>	<b>(30,984.00)</b>	<b>(21,546.69)</b>
<b>OTHER INCOME (EXPENSE)</b>			
Interest Income	0.00		0.00
Interest Expense	(4,076.99)	(23,636.33) (D)	(27,713.32)
Other Income (Expense)	0.00		0.00
Income (Tax) Benefit	1,427.00	(1,427.00) (C)	0.00
<b>TOTAL OTHER INCOME (EXPENSE)</b>	<b>(2,649.99)</b>	<b>(25,063.33)</b>	<b>(27,713.32)</b>
<b>NET EARNINGS (LOSS)</b>	<b>6,787.32</b>	<b>(56,047.33)</b>	<b>(49,260.01)</b>

**Water Utility of Greater Tonopah, Inc.**  
**2004 Pro Forma Adjustments**

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**Pro Forma  
Adjustments**

- (A) Estimated annual O&M for arsenic treatment systems based on 7% of arsenic capital costs.

$$\begin{array}{r} \$138,800.00 \\ \times 7.0\% \\ \hline \$9,716.00 \end{array}$$

- (B) Depreciation for all 4 project capital costs based on current depreciation rate of 5%.

$$\begin{array}{r} \$527,000.00 \\ \times 5.0\% \\ \hline \$26,350.00 \end{array}$$

- (C) Reversed income tax expenses due to negative Net Earnings.

- (D) Interest expense based on attached amortization schedule.

Loan for \$527,000, estimated annual interest rate of 4.55%, loan period 20 years.

## EXHIBIT H

Water Utility of Greater Tonopah, Inc.  
Balance Sheet  
July 31, 2005

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ASSETS

PROPERTY, PLANT & EQUIPMENT	1,264,614.02
Construction in Progress	10,758.68
Accumulated Depreciation	<u>(536,027.07)</u>
TOTAL PROPERTY, PLANT & EQUIP.	<u>739,345.63</u>

CURRENT ASSETS

Cash	13,538.49
Accounts Receivable	20,214.22
Other Receivable	0.00
Prepaid Expense	<u>357.17</u>
TOTAL CURRENT ASSETS	<u>34,109.88</u>

OTHER ASSETS

Restricted Cash	3,307.15
Deferred Income Taxes	14,876.00
Deferred CAP Costs Fee	24,576.00
Deposits	0.00
Inter-Co Receivable	30,169.98
Investments	<u>0.00</u>
TOTAL OTHER ASSETS	<u>72,929.13</u>

TOTAL ASSETS	<u><u>846,384.64</u></u>
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Water Utility of Greater Tonopah, Inc.  
Balance Sheet  
July 31, 2005

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STOCKHOLDER'S EQUITY & LIABILITIES

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STOCKHOLDER'S EQUITY

Common Stock	13,500.00
Additional Paid in Capital	643,183.00
Retained Earnings	(523,822.13)
Net Income	<u>1,643.65</u>

TOTAL STOCKHOLDER'S EQUITY	<u>134,504.52</u>
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LONG-TERM DEBT

L-T Debt (Net of C/P)	<u>87,439.75</u>
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TOTAL LONG-TERM DEBT	<u>87,439.75</u>
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CURRENT LIABILITIES

Current Portion of L-T Debt	3,628.07
Account Payable	0.00
Customer Security Deposits	5,490.00
Current Portion of AIAC	649.16
Accrued Property Taxes	2,800.00
Accrued Sales & Use Taxes	1,211.85
Accrued Income Tax	<u>4,200.00</u>

TOTAL CURRENT LIABILITIES	<u>17,979.08</u>
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DEFERRED LIABILITIES

Meter Deposits	64,269.00
Inter-Co Payable	75,108.81
AIAC (Net of C/P)	456,580.19
Contribution for Construction	10,794.21
Amortization of Contributions	<u>(290.92)</u>

TOTAL DEFERRED LIABILITIES	<u>606,461.29</u>
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TOTAL STOCKHOLDER'S EQUITY  
& LIABILITIES

<u><u>846,384.64</u></u>
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**Water Utility of Greater Tonopah, Inc.**  
**Income Statement**  
**For the Seven Months Ending July 31, 2005**

	<u>Current Month</u>	<u>Year to Date</u>
Water Sales	18,952.10	91,011.33
Other Operating Revenue	491.47	2,680.13
<b>TOTAL OPERATING REVENUE</b>	<b>19,443.57</b>	<b>93,691.46</b>
<b>OPERATING EXPENSE</b>		
Wages	2,141.81	13,023.07
Employee Benefits	210.10	1,386.86
IRA Contribution	18.85	138.88
Purchased Power	1,210.19	5,992.30
Repairs & Maintenance	300.00	3,138.51
Water Testing & Treat.	392.83	3,790.47
Outside Services	106.91	1,283.49
Management Fees	2,310.00	16,120.00
Transportation	389.08	389.08
General Office & Admin.	89.21	1,394.02
Rent	58.80	411.60
General Insurance	189.39	1,325.73
Depreciation	4,583.33	32,083.31
Rate Case Expense	0.00	0.00
Bad Debts	0.00	330.85
Regulatory/Permits	0.00	1,039.86
Payroll Taxes	196.27	1,274.08
Property Taxes	400.00	2,856.78
Income Taxes	600.00	4,200.00
<b>TOTAL OPERATING EXPENSES</b>	<b>13,196.77</b>	<b>90,178.89</b>
<b>EARNINGS (LOSS) FROM OPERATIONS</b>	<b>6,246.80</b>	<b>3,512.57</b>
<b>OTHER INCOME (EXPENSE)</b>		
Interest Income	0.00	0.00
Interest Expense	(341.98)	(2,373.92)
Other Income (Expense)	0.00	505.00
Income (Tax) Benefit	0.00	0.00
<b>TOTAL OTHER INCOME (EXPENSE)</b>	<b>(341.98)</b>	<b>(1,868.92)</b>
<b>NET EARNINGS (LOSS)</b>	<b>5,904.82</b>	<b>1,643.65</b>

Water Utility of Greater Tonopah, Inc.  
Statement of Cash Flow  
For the Seven Months Ended July 31, 2005

	Current Month	Year to Date
NET EARNINGS (LOSS)	5,904.82	1,643.65
CASH FLOWS FROM OPERATING ACTIVITIES		
Depreciation	4,583.33	32,083.31
Accounts Receivable	(2,582.99)	(13,968.31)
Prepaid Expense	392.83	2,302.69
Deferred Income Tax	0.00	0.00
Deferred Expense	(127.20)	(1,786.40)
Accounts Payable	0.00	0.00
Intercompany Payable	5,621.34	52,891.75
Intercompany Receivable	(1,409.12)	(30,169.98)
Accrued Liabilities	1,073.46	5,666.33
TOTAL ADJUSTMENTS	7,551.65	47,019.39
NET CASH FROM OPERATIONS	13,456.47	48,663.04
CASH FLOWS FROM INVESTING ACTIVITIES		
Capital Expenditures	(5,655.90)	(48,130.23)
NET CASH FOR (USED) IN INVESTING	(5,655.90)	(48,130.23)
CASH FLOWS FROM FINANCING ACTIVITIES		
Borrowing	0.00	0.00
Repayment of Debt	(301.77)	(2,094.94)
Restricted Cash	0.00	0.00
Paid In Capital	0.00	0.00
AIAC	0.00	0.00
Proceeds from Sec. Deposits	(390.00)	1,920.00
Proceeds from Meter Deposits	485.00	9,797.00
Proceeds from Meter Deposits	0.00	0.00
Contribution for Construction	0.00	0.00
CASH PROVIDED FOR FINANCING	(206.77)	9,622.06
NET CASH FLOW	7,593.80	10,154.87
Summary		
Cash Balance at End of Period	13,538.49	13,538.49
Cash Balance at Beg. of Period	5,944.69	3,383.62
Net Increase <Decrease> in Cash	7,593.80	10,154.87

## EXHIBIT I

PUBLIC NOTICE  
OF  
AN APPLICATION FOR AN ORDER  
AUTHORIZING THE ISSUANCE OF DEBT  
BY WATER UTILITY OF GREATER TONOPAH, INC.

Water Utility of Greater Tonopah, Inc. (Applicant) filed an Application with the Arizona Corporation Commission (Commission) for an order authorizing Applicant to issue \$527,000 in debt to make improvements to its water system. The application is available for inspection during regular business hours at the office of the Commission in Phoenix, Arizona, and the Company's offices in Phoenix and Buckeye, Arizona.

Intervention in the Commission's proceedings on the application shall be permitted to any person entitled by law to intervene and having a direct substantial interest in this matter. Persons desiring to intervene must file a Motion to Intervene with the Commission which must be served upon applicant and which, at a minimum, shall contain the following information:

1. The name, address and telephone number of the proposed intervenor and of any person upon whom service of documents is to be made if different than the intervenor.
2. A short statement of the proposed intervenor's interest in the proceeding.
3. Whether the proposed intervenor desires a formal evidentiary hearing on the application and the reasons for such a hearing.
4. A statement certifying that a copy of the Motion to Intervene has been mailed to Applicant.

The granting of Motions to Intervene shall be governed by A.A.C. R14-3-105, except that all Motions to Intervene must be filed on, or before, the 15<sup>th</sup> day after this notice.